ALPINE

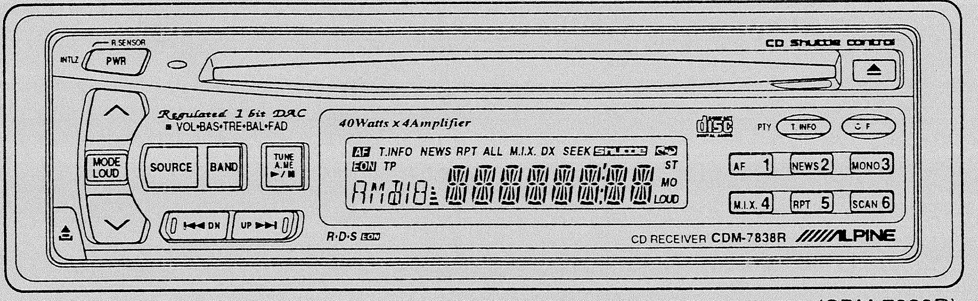
SERVICE MANUAL

FM/MW/LW/RDS CD Receiver

CD Shuttle Controller

COMPACT
disc
DIGITAL AUDIO

- The model CDM-7838R is developed from Model CDM-7837R.
  The models CDM-7835R and CDM-7835RM are developed from Model CDM-7834R.
  For information that is not mentioned in this service manual, refer to the Service Manual • CDM-7837R/CDM-7834R (Part No. 68E27812S01).


R.SENSOR
INTLZ
PWR
CD Shuttle control
Regulated 1 bit DAC
■ VOL•BAS•TRE•BAL•FAD
40Watts x 4Amplifier
MODE LOUD
SOURCE
BAND
TUNE A.ME ►/■
T.INFO NEWS RPT ALL M.I.X. DX SEEK
EON TP
ST
MO
LOUD
PTY
T.INFO
AF 1
NEWS 2
MONO 3
M.I.X. 4
RPT 5
SCAN 6
DN
UP
R·D·S EON
CD RECEIVER CDM-7838R
ALPINE

(CDM-7838R)

CDM-7838R/CDM-7835R/ CDM-7835RM

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CDM-7838R : Refer to the Service Manual • CDM-7837R (Part No. 68E27812S01).
CDM-7835R/CDM-7835RM : Refer to the Service Manual • CDM-7834R (Part No. 68E27812S01).

NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.		Part No.	Description
	101-1	02B47353F01	Nut, Hex. (M5)
	101-2	03S72235F13	Screw, Countersink (M5X8)
	101-3	46A42363F01	Stud, Bolt
○	101-4	06T55630W01	Battery, MGN R03(NB) UM-4
	101-5	36A11113W01	Cap, Rubber (A)
	101-6	36A11112W01	Bolt, Hex. (M5)
	101-7	01T15394Y02	Antenna, JASO-ISO

Symbol No.		Part No.	Description
	102-1	68P21523Y11	Owner's Manual
	102-2	68P21523Y12	Owner's Manual (I/G/S)
	103	07B64552F01	Bracket, Strap Receiver
	104	15D50406W01	Case, Inner
	105	15D71506W01	Carrying, Case
	106	01T15359Y03	Assy., ISO Connector
○	107	01T00716K02	Assy., Remocon

NOTE : ○ : For CDM-7838R Model Only, Others : Common.

Specifications (Only Difference)

NOTE (CDM-7838R) : Refer to the Service Manual • CDM-7837R (Part No. 68E27812S01) for description not mentioned in this manual.

NOTE (CDM-7835R/CDM-7835RM) : Refer to the Service Manual • CDM-7834R (Part No. 68E27812S01) for description not mentioned in this manual.

<LW RADIO>

Image Rejection (at 270kHz)	40dB
IF Rejection (at 162kHz)	50dB

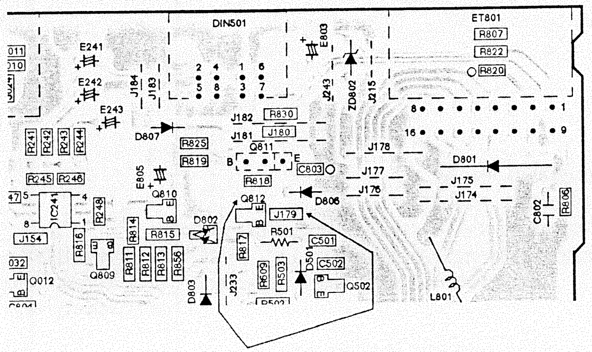
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Parts Layout on P.W.Boards and Wiring Diagram (1/4)(Only Difference)

All P.W.Boards viewed from soldered side.

NOTE (CDM-7838R) : Refer to the Service Manual · CDM-7837R (Part No.68E27812S01)
for description not mentioned in this manual.
NOTE (CDM-7835R/CDM-7835RM) : Refer to the Service Manual · CDM-7834R (Part No.68E27812S01)
for description not mentioned in this manual.

Main P.W.Board


DIN501
ET801
R807
R822
R820
E803
E241
E242
E243
J184
J183
J243
ZD802
J215
J182
R830
J181
J180
Q811
J178
D807
R825
R819
C803
J177
D801
J176
J175
J174
R818
E805
Q810
Q812
D806
J179
C802
R806
R241
R242
R243
R244
R245
R246
IC241
R248
J154
R816
R814
R815
Q809
Q012
R811
R812
R813
R856
D802
R817
R501
C501
C502
Q502
D501
R609
R503
D803
J233
L801

Changed CDM-7838R/CDM-7835R/CDM-7835RM

NOTE : ○ : CDM-7838R Model Only.
Others : Common.

Blue Color Pattern :Foil Side Pattern

1
2
3
4
5

A B C

Electrical Parts List (Only Difference)

NOTE (CDM-7838R) : For the parts not mentioned, refer to the Service Manual for CDM-7837R (Part No. 68E27812S01).
NOTE (CDM-7835R/CDM-7835RM) : For the parts not mentioned, refer to the Service Manual for CDM-7834R (Part No. 68E27812S01).

Model		CDM-7837R/CDM-7834R		CDM-7838R/CDM-7835R/CDM-7835RM		
	Symbol No.	Part No.	Description		Part No.	Description
	Main P.W.Board					
	IC's					
	IC202	51T65379F21	XRA4558F		51T15419Y02	BA4558F
○	IC203	51T65379F21	XRA4558F	○	51T15419Y02	BA4558F
	IC241	51T65379F21	XRA4558F		51T15419Y02	BA4558F
	Transistors					
○	Q852	48T62966F01	CP., DTA143	○	48T62966F01	TR,DTA143EKA-T146-CP
●	Q852	—	—	△	48T62966F01	TR,DTA143EKA-T146-CP
●	Q852	—	—	▲	48T62966F01	TR,DTA143EKA-T146-CP
	Diodes					
○	D809	48T63462F01	CP., DAN202K	○	48T63462F01	DIO,CP. DAN202K-96
●	D809	—	—	△	48T63462F01	DIO,CP. DAN202K-96
●	D809	—	—	▲	48T63462F01	DIO,CP. DAN202K-96
	Capacitors					
○	C803	08T15399W04	CP., 0.027µF	○	08T15399W04	CAP,CER. 273K-B1H-CP
●	C803	—	—	△	08T15399W04	CAP,CER. 273K-B1H-CP
●	C803	—	—	▲	08T15399W04	CAP,CER. 273K-B1H-CP
	Resistors					
○	R658	06S64995F85	CP., 22K ohm 1/10W	○	06S53330F85	RES,CP. 223-J-1/8-CP
○	R820	06S64995F77	CP., 10K ohm 1/10W	○	06S64995F77	RES,CP. 103-J-1/10-CP
●	R820	—	—	△	06S64995F77	RES,CP. 103-J-1/10-CP
●	R820	—	—	▲	06S64995F77	RES,CP. 103-J-1/10-CP
	Front P.W.Board					
	Lamps					
●	PL3401	65T85125W07	9V-100mA	△	65T85125W07	LAMP,GRN 9-100-R2

NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE : ○ : For CDM-7838R Model Only,
△ : For CDM-7835R Model Only,
▲ : For CDM-7835RM Model Only,
Others : Common.

Model		CDM-7837R/CDM-7834R			CDM-7838R/CDM-7835R/CDM-7835RM	
Symbol No.		Part No.	Description		Part No.	Description
●	PL3401	65T85125W07	9V-100mA	▲	65T85125W09	LAMP,ORG 9-100-R2
●	PL3404	65T85350W01	6V-80mA	△	65T85350W01	LAMP,GRN 6-80-H2
●	PL3404	65T85350W01	6V-80mA	▲	65T85350W05	LAMP,ORG 6-80-R2
●	PL3405	65T85350W01	6V-80mA	△	65T85350W01	LAMP,GRN 6-80-H2
●	PL3405	65T85350W01	6V-80mA	▲	65T85350W05	LAMP,ORG 6-80-R2
●	PL3406	65T85350W01	6V-80mA	△	65T85350W01	LAMP,GRN 6-80-H2
●	PL3406	65T85350W01	6V-80mA	▲	65T85350W05	LAMP,ORG 6-80-R2
●	PL3407	65T85350W01	6V-80mA	△	65T85350W01	LAMP,GRN 6-80-H2
●	PL3407	65T85350W01	6V-80mA	▲	65T85350W05	LAMP,ORG 6-80-R2
Resistors						
●	R3435	06S70072F08	CP., 13 ohm 1/4W	△	06S70072F08	RES,CP. 13R-J-1/4-CP
●	R3435	06S70072F08	CP., 13 ohm 1/4W	▲	06S70072F14	RES,CP. 24R-J-1/4-CP
●	R3437	06S70072F08	CP., 13 ohm 1/4W	△	06S70072F08	RES,CP. 13R-J-1/4-CP
●	R3437	06S70072F08	CP., 13 ohm 1/4W	▲	06S70072F14	RES,CP. 24R-J-1/4-CP
Miscellaneous						
	HD1201	88T55261W01	Pick-Up Unit		81B81296W02	Pick-Up Unit, EP21A020

NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE : △ : For CDM-7835R Model Only,
▲ : For CDM-7835RM Model Only,
Others : Common.

Cabinet Assembly Parts List (Only Difference)

NOTE (CDM-7838R) : For the parts not mentioned, refer to the Service Manual for CDM-7837R (Part No. 68E27812S01).

NOTE (CDM-7835R/CDM-7835RM) : For the parts not mentioned, refer to the Service Manual for CDM-7834R (Part No. 68E27812S01).

Model		CDM-7837R/CDM-7834R				CDM-7838R/CDM-7835R/CDM-7835RM		
Symbol No.		Index	Part No.	Description		Index	Part No.	Description
○	1	3-B	01V13700Y40	Assy., Nose Unit	○	3-B	01V26100Y06	Assy., Nose Unit
●	1	3-B	01V13700Y46	Assy., Nose Unit	△	3-B	01V24700Y53	Assy., Nose Unit
●	1	3-B	01V13700Y46	Assy., Nose Unit	▲	3-B	01V26500Y68	Assy., Nose Unit
○	8	2-C	33C10618Y01	Face, Plate	○	2-C	33C10618Y01	Face, Plate
●	8	2-C	33C10618Y01	Face, Plate	△	2-C	33C10618Y01	Face, Plate
●	8	2-C	33C10618Y01	Face, Plate	▲	2-C	33C10618Y03	Face, Plate
	12		——	Assy., Bracket Side			07D91595W01	Assy., Bracket Side
	13		——	Assy., Bracket Side (R)			07D91595W02	Assy., Bracket Side (R)
	16	2-G	81D10183Y01	CD Deck Mechanism, DP23L23A		2-G	——	CD Deck Mechanism, DP23L23A
○	24	5-B	13C10471Y04	Assy., Nosepiece	○	5-B	13D10471Y07	Assy., Nosepiece
●	24	5-B	13C10494Y04	Assy., Nosepiece	△	5-B	13D10471Y06	Assy., Nosepiece
●	24	5-B	13C10494Y04	Assy., Nosepiece	▲	5-B	13D10471Y08	Assy., Nosepiece
	28	3-F	14S51152W44	Insulator, Cover		3-F	——	Insulator, Cover

NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE : ○ : For CDM-7838R Model Only,
△ : For CDM-7835R Model Only,
▲ : For CDM-7835RM Model Only,
Others : Common.

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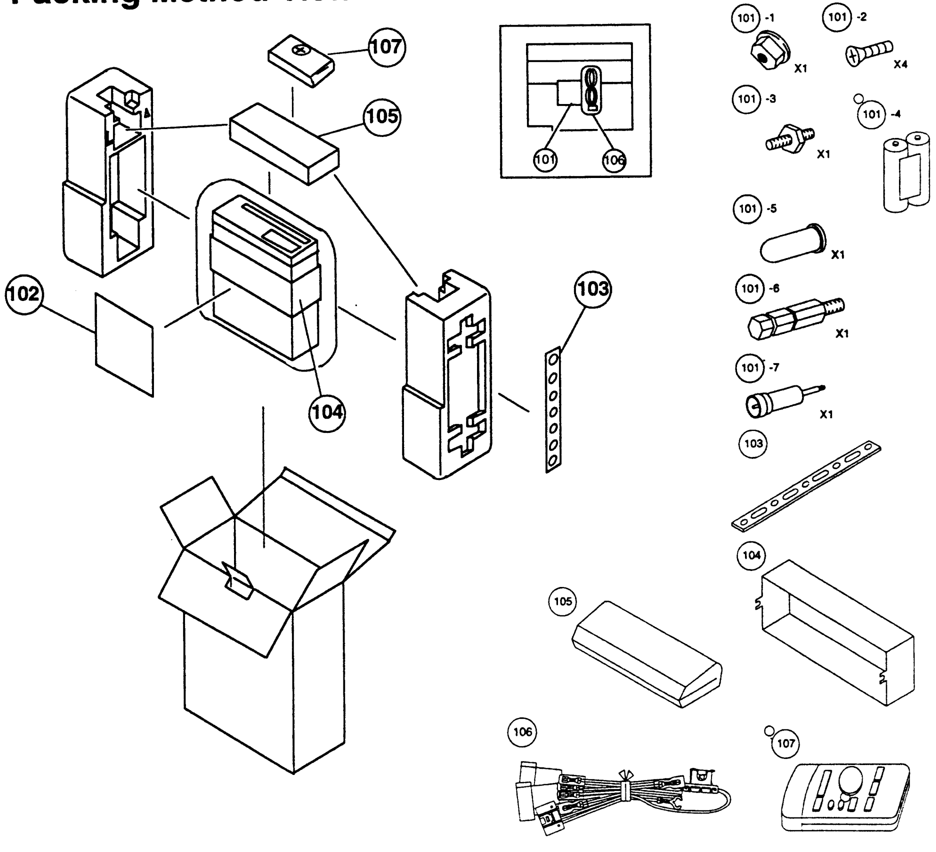
Packing Assembly Parts List

Symbol No.	Part No.	Description
○ 101	01V13700Y74	Assy., Kit
● 101	01V13700Y72	Assy., Kit
102-1	68P10924Y24	Owner's Manual
102-2	68P10924Y25	Owner's Manual (I/G/S)
103	07B64552F01	Bracket, Strap Receiver
104	15D50406W01	Case, Inner
105	15D71506W01	Carrying, Case
○ 106	01T15359Y03	Assy., ISO Connector
● 106	01T15359Y02	Assy., ISO Connector
○ 107	01T00716K02	Assy., Remocon

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

Packing Method View



Specifications

<CD SECTION>

System	Optical (Compact Disc System)
Quantizing Bit Number	16bit Linear system
Channels	2 Channels
Channel Balance (1kHz)	0±3dB
Distortion (1kHz)	0.1%
Frequency Response (Ref. 1kHz)	17Hz : 0±3dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : 0±4dB
S/N Ratio	85dB
Separation (1kHz)	55dB
De-Emphasis (Ref. 1kHz)	4kHz : -20±3dB 16kHz : -20±3dB

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Mono, 3% Dist., at 98.1MHz)	20.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	20.2dBf
Residual Noise (Ref. 400Hz, at 98.1MHz)	25±10dB
S/N Ratio (Stereo, at 98.1MHz)	55dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dB μ, at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB 10kHz : -12±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	25dB

<MW RADIO>

Intermediate Frequency	450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	34dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 603kHz)	40dB
IF Rejection (at 603kHz)	40dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB 4kHz : -12+4, -8dB

<LW RADIO>

Intermediate Frequency	450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	38dB
S/N Ratio (at 216kHz)	42dB
Image Rejection (at 270kHz)	50dB
IF Rejection (at 162kHz)	60dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB 4kHz : -12+4, -8dB

<GENERAL>

Power Supply	DC14.4V
Power Output (T.H.D. 10%) /Impedance	16W/ch/4ohm (○) 14W/ch/4ohm (●)
Pre Output/Impedance	1.2V/10Kohm
Semiconductors	24IC's, 55Transistors, 15Diodes, 4Zener Diodes(○) 21IC's, 39Transistors, 13Diodes, 4Zener Diodes(●)
Dimensions (W×H×D)	Chassis : 178×50×158mm Nose : 188×58×14.5mm
Weight	1.5kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.
○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

Servo Monitor (Part No. 01E20845S01)

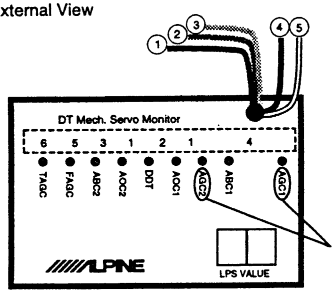
I. Purpose

DP-L mechanism built-in CMD-7837R/CDM-7834R performs digital signal processing in the insideof Digital Servo LSI and the outside alignment circuit builds in to this Digital Servo LSI and each alignments are automatic.

This DT Mech. Servo Monitor is jig for the automatic alignment circuitry.
Please refer to the following list for the reference;

1. LED indicates the alignment.
2. Diagnosis of automatic alignment.
3. LED indicates a failure item for easy failure analysis of servo circuitry.

External View

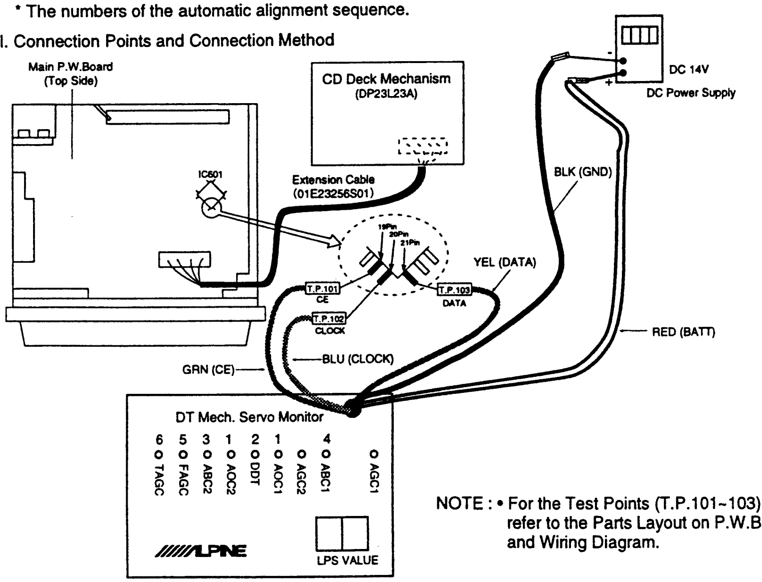

①
②
③
④
⑤
DT Mech. Servo Monitor
6 5 3 1 2 1 4
TAGC
FAGC
ABC2
AOC2
DDT
AOC1
AGC2
ABC1
AGC1
ALPINE
LPS VALUE

	①	②	③	④	⑤
Wire Color	Yellow	Green	Blue	Black	Red
Name	Data	Latch	Clock	Ground	Battery

※ For this digital servo LSI, no adjustment was made.

* The numbers of the automatic alignment sequence.

II. Connection Points and Connection Method


Main P.W.Board
(Top Side)
CD Deck Mechanism
(DP23L23A)
IC601
Extension Cable
(01E23256S01)
19Pin
20Pin
21Pin
T.P.101
CE
T.P.102
CLOCK
T.P.103
DATA
YEL (DATA)
BLK (GND)
DC 14V
DC Power Supply
RED (BATT)
GRN (CE)
BLU (CLOCK)
DT Mech. Servo Monitor
6 5 3 1 2 1 4
TAGC
FAGC
ABC2
AOC2
DDT
AOC1
AGC2
ABC1
AGC1
ALPINE
LPS VALUE

NOTE : • For the Test Points (T.P.101~103), refer to the Parts Layout on P.W.Boards and Wiring Diagram.

Connect each of the wires to the Test point as illustrated in the diagram.

* Be very careful not to shorts the test points since they are located close together.

* DT Mech. Servo Monitor can be used for the DP-L mechanism.

III. Operating Specifications

The automatic adjustment operations of the CMD-7837R/CDM-7834R are performed by output of the commands of the various adjustment items from the main microprocessor. Adjustments are performed in response to these commands by the digital servo LSI. This servo monitor jig receives the signal returned to the main microprocessor from the digital servo LSI and causes the LED to light or go off. The adjustment condition (of either completed or not yet completed) of the various adjustment items can be checked using the lighting condition of this LED.
The following test discs are required for the good/fault judgment:

1. A-BEX TCD-721 (6th track - 1.2mm) : Scratch test disc
2. A-BEX TCD-782 : Signal test disc

Measures to be Taken Corresponding to the LED Indication

1. When a LED other than FAGC or TAGC lights, perform the fault causation analysis using the fault diagnosis chart according to the LED indication.
2. When only the FAGC or TAGC LED turn on a lights (indicating that the focus / tracking fine gain adjustment is not completed) , perform the focus / tracking servo gain adjustment. If the value is within the specification, the adjustment is normal.

i) LED indications

Lit : Fault Unlit : OK

Adjustment Order	LED Name	Adjustment Order	Contents
1	AOC2	Tracking offset adjustment	Corrects the tracking error value as an offset.
	AOC1	Focus offset adjustment	Corrects the focus error value as an offset.
2	DDT	Disc detection	Detects the presence or absence of a disc.
3	ABC2	Tracking balance adjustment	Corrects the average value of the tracking error as a balance value.
4	ABC1	Focus balance adjustment	Correct until the RF level becomes maximum.
5	FAGC	Focus fine gain adjustment	Introduces external interference and adjusts the focus gain to an appropriate value.
6	TAGC	Tracking fine gain adjustment	Introduces external interference and adjusts the tracking gain to an appropriate value.

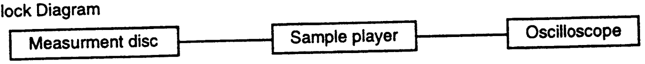
ii) Seven-Segument LED (LPS Value)
Not used since this model is a single CD player. Indication shows "00".

Measurements

A. RF Signal Level Measurement

The main beam of the returning light is received by the photodiode and the output voltage is obtained by current-voltage conversion of A+B+C+D.

1. Block Diagram

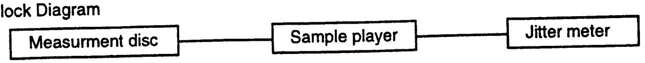

Measurment disc
Sample player
Oscilloscope

2. Measurement Method
   (a). Connect the ground terminal of the oscilloscope VRO (TA2066F (IC1102), pin 20) and measure the RFO signal (of TA2066F (IC1102), pin 21).
   (b). Play the first track of the measurement disc A-BEX TCD-782.
   (c). Read the peak-to-peak value of the waveform.
   Specification: 1.2+0.3, -0.2V
   * When the value is outside of the specification (i.e., not good), check TA2066F (IC1102) and the pick-up.

B. Jitter Measurement

The standard deviation of the pulse width when a trigger is applied to the rising edge of the 3T component of the RF signal.

1. Block Diagram

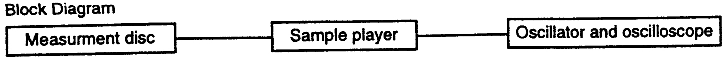

Measurment disc
Sample player
Jitter meter

2. Measurement Method
   (a). Connect the ground terminal of the jitter meter to VRO (TA2066F (IC1102), pin 20) and measure the RFO signal (of TA2066F (IC1102), pin 21).
   (b). Play the first track of the measurement disc A-BEX TCD-782.
   (c). Read the indicated value of the jitter meter.
   Specification: 25nS or less
   * When the value is outside of the specification, check TA2066F (IC1102) and the pick-up.

C. Focus Servo Gain Measurement

Measure the focus servo open loop gain in the servo-on (closed loop) condition.

1. Block Diagram


Measurment disc
Sample player
Oscillator and oscilloscope

2. Measurement Method using an Oscillator and an Oscilloscope

   (a). Connect OSC output to resistor for gain measurement (100 ohm). (Connect a servo driver side to positive side.)

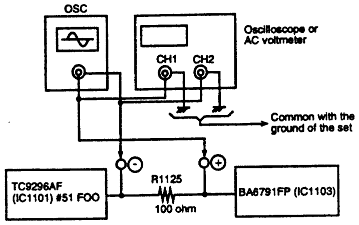
   (b). Connect CH1 of oscilloscope to a servo driver side of resistor for gain measurement (100 ohm). (Connect negative side with GND of set.)

   (c). Connect CH2 of oscilloscope to TC9296AF (IC1101) side of resistor for gain measurement (100 ohm). (Connect negative side with GND of set.)

   (d). Play back the eighth track of A-BEX TCD-782 disc for measurement. (No sound recording track)

   (e). Output frequency (1.2 kHz, 200 mVP-P) from OSC and compare the amplitude of CH1 and CH2 of oscilloscope and convert into dB.
   Gain (dB) =20 Log (CH2/CH1)
   Specification : Gain Normal if it is within 0±3dB.
   * If the specificaiton is out (NG), TC9296AF (IC1101) (Digital Servo LSI) is malfunction.
   NOTE: AC voltmeter is available to measurement.

3. Connection (Example)

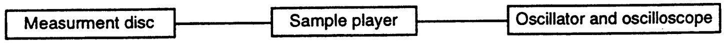

OSC
Oscilloscope or AC voltmeter
CH1
CH2
Common with the ground of the set
TC9296AF (IC1101) #51 FOO
R1125
100 ohm
BA6791FP (IC1103)
-
+

* FOO: Focus drive output

D. Tracking Servo Gain Measurement

Measure the tracking servo open loop gain in the servo-on (closed loop) condition.

1. Block Diagram


Measurment disc
Sample player
Oscillator and oscilloscope

2. Measurement Method using Oscillator and an Oscilloscope

   (a). Connect OSC output to resistor for gain measurement (100 ohm). (Connect a servo driver side to positive side.)

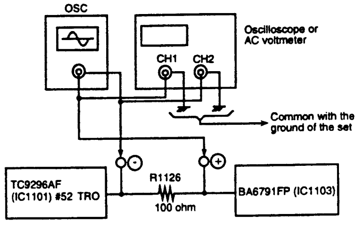
   (b). Connect CH1 of oscilloscope to a servo driver side of resistor for gain measurement (100 ohm). (Connect negative side with GND of set.)

   (c). Connect CH2 of oscilloscope to TC9296AF (IC1101) side of resistor for gain measurement (100 ohm).

   (d). Play back the eighth track of A-BEX TCD-782 disc for measurement. (No sound recording track)

   (e). Output frequency (1 kHz, 50 mVP-P) from OSC and compare the amplitude of CH1 and CH2 of oscilloscope and convert into dB.
   Gain (dB) =20 Log (CH2/CH1)
   Specification : Gain Normal if it is within 0±3dB.
   * If the specificaiton is out (NG), TC9296AF (IC1101) (Digital Servo LSI) is malfunction.
   NOTE: AC voltmeter is available to measurement.

3. Connection (Example)

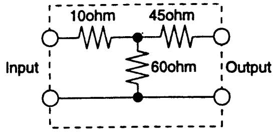

OSC
Oscilloscope or AC voltmeter
CH1
CH2
Common with the ground of the set
TC9296AF (IC1101) #52 TRO
R1126
100 ohm
BA6791FP (IC1103)
-
+

* TRO: Tracking drive output

Adjustment Procedures

1. FM SECTION

(1) Dummy Antenna Circuit


10ohm
45ohm
60ohm
Input
Output

For 50 ohm FM Signal Generator Figure 1

(2) Connections

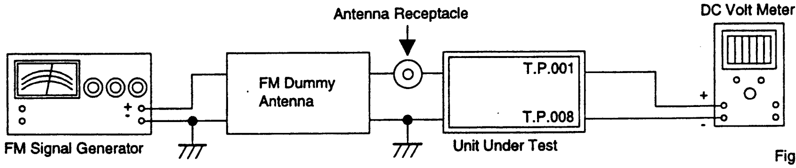

Antenna Receptacle
DC Volt Meter
FM Dummy Antenna
T.P.001
T.P.008
FM Signal Generator
Unit Under Test
+
-

Figure 2

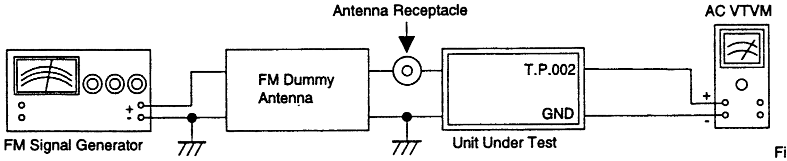

Antenna Receptacle
AC VTVM
FM Dummy Antenna
T.P.002
GND
FM Signal Generator
Unit Under Test
+
-

Figure 3

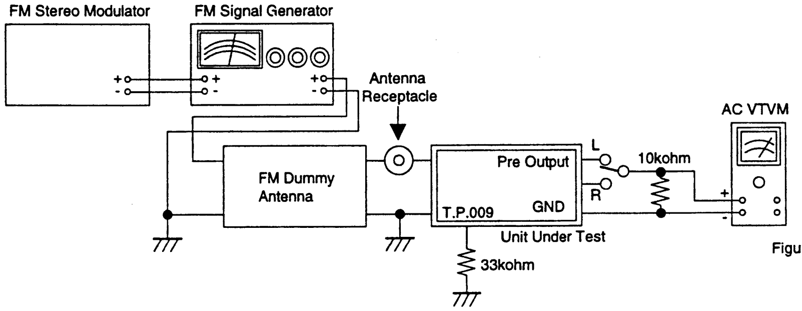

FM Stereo Modulator
FM Signal Generator
Antenna Receptacle
AC VTVM
FM Dummy Antenna
Pre Output
L
R
10kohm
T.P.009
GND
Unit Under Test
33kohm
+
-

Figure 4

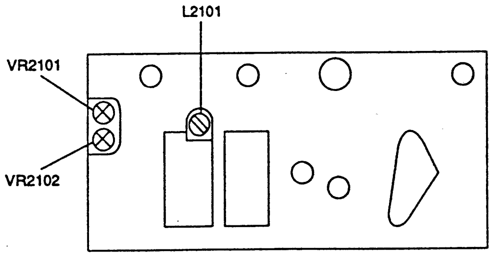
(3) Control Settings

Power Switch .... ON
Fader Control .... Center Position
Balance Control .... Center Position
Treble Control .... Center Position
Bass Control .... Center Position
Band Switch .... FM
Others .... OFF

(4) Adjustment Procedures

Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	IF Adjustment	Figure 2	98.1MHz, 72dBμ (Mod. OFF)	98.1MHz	T.P.001 (1-D) T.P.008 (1-D)	Adjust L2101 to 15-25mV.
2	Signal Meter Adjustment	Figure 3	98.1MHz, 46dBμ (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.002 (1-C)	Adjust VR2101 to 3.5±0.1V output.
3	Stereo Blend Adjustment (Lch)	Figure 4	98.1MHz, 46dBμ (Mod. 1kHz, Dev. 36kHz, Stereo, Lch only)	98.1MHz	Pre Output T.P.009 (1-D)	Adjust VR2102 for Lch and Rch output level difference to be 8dB.
4	Stereo Blend Adjustment (Rch)	Figure 4	98.1MHz, 46dBμ (Mod. 1kHz, Dev. 36kHz, Stereo, Rch only)	98.1MHz	Pre Output T.P.009 (1-D)	Proceed same adjustment under step 3.

Adjustment Locations

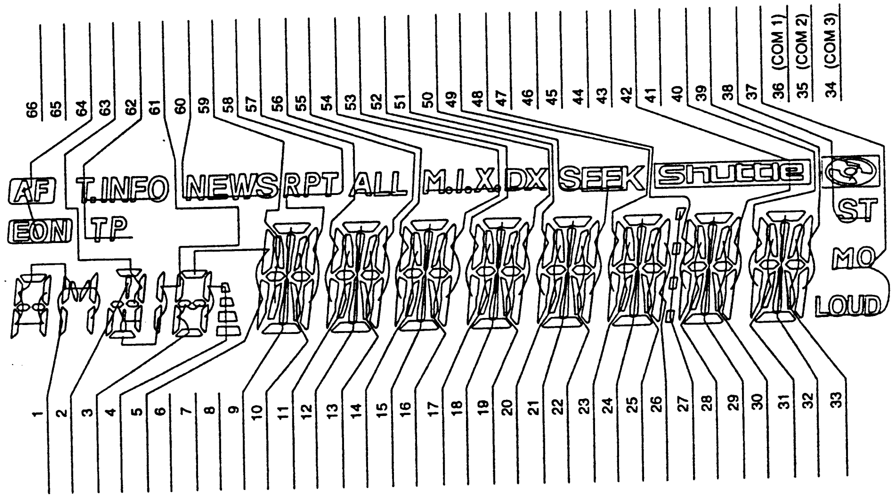

L2101
VR2101
VR2102

FM/MW/LW Tuner Unit, MB4R6050 (FE001)

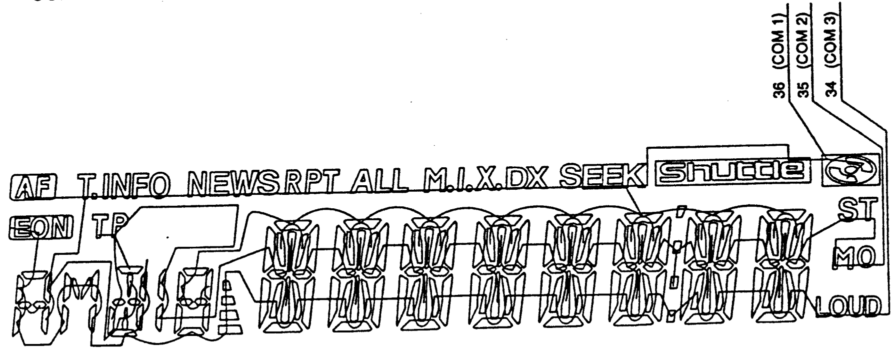
NOTE : For the Test Points (T.P.001, 002, 008, 009), refer to the Parts Layout on P.W.Boards and Wiring Diagram.

LCD Display

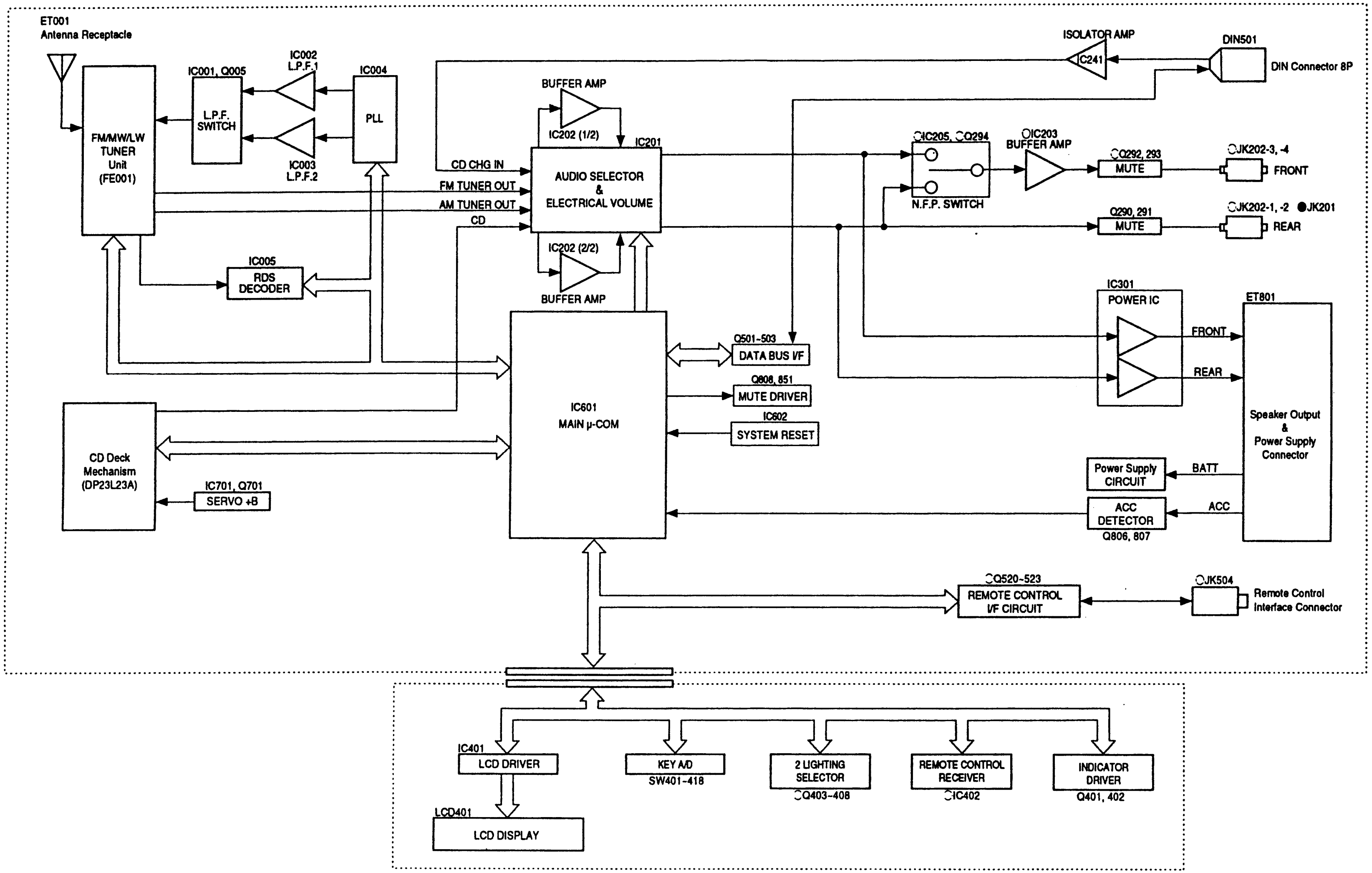
SEGMANT


66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37
36 (COM 1)
35 (COM 2)
34 (COM 3)
AF
T.INFO
NEWS
RPT
ALL
M.I.X.
DX
SEEK
Shuttle
EON
TP
ST
MO
LOUD
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

COMMON

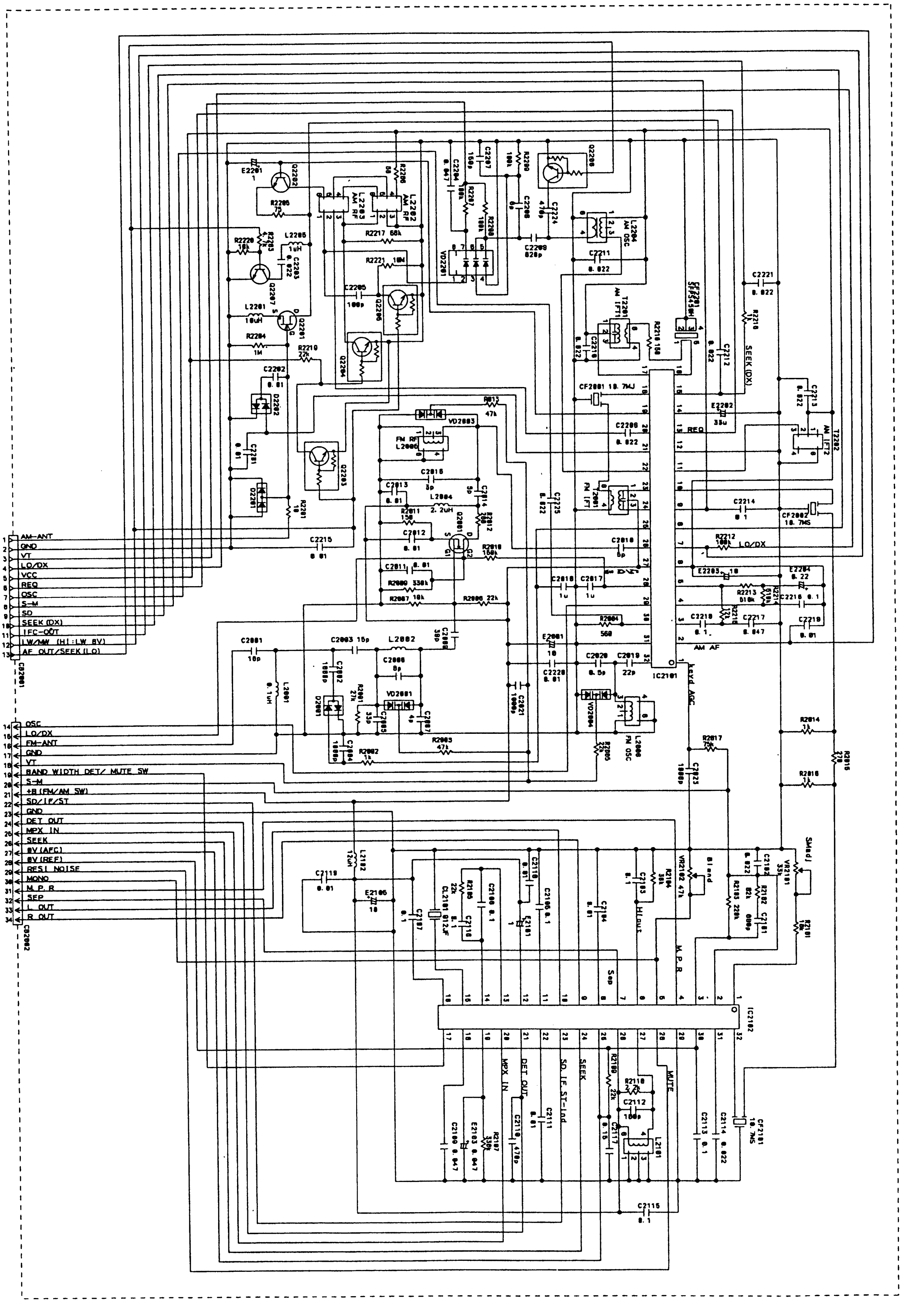

36 (COM 1)
35 (COM 2)
34 (COM 3)
AF
T.INFO
NEWS
RPT
ALL
M.I.X.
DX
SEEK
Shuttle
EON
TP
ST
MO
LOUD

Block Diagram


ET001
Antenna Receptacle
FM/MW/LW TUNER Unit (FE001)
IC001, Q005
L.P.F. SWITCH
IC002 L.P.F.1
IC003 L.P.F.2
IC004
PLL
BUFFER AMP
IC202 (1/2)
IC201
CD CHG IN
FM TUNER OUT
AM TUNER OUT
CD
AUDIO SELECTOR & ELECTRICAL VOLUME
IC202 (2/2)
BUFFER AMP
IC005
RDS DECODER
ISOLATOR AMP
IC241
DIN501
DIN Connector 8P
○IC205, ○Q294
N.F.P. SWITCH
○IC203 BUFFER AMP
○Q292, 293
MUTE
○JK202-3, -4
FRONT
Q290, 291
MUTE
○JK202-1, -2 ●JK201
REAR
IC301
POWER IC
ET801
FRONT
REAR
Speaker Output & Power Supply Connector
Q501-503
DATA BUS I/F
Q808, 851
MUTE DRIVER
IC602
SYSTEM RESET
IC601
MAIN μ-COM
CD Deck Mechanism (DP23L23A)
IC701, Q701
SERVO +B
Power Supply CIRCUIT
BATT
ACC DETECTOR
ACC
Q806, 807
○Q520-523
REMOTE CONTROL I/F CIRCUIT
○JK504
Remote Control Interface Connector
IC401
LCD DRIVER
LCD401
LCD DISPLAY
KEY A/D
SW401-418
2 LIGHTING SELECTOR
○Q403-408
REMOTE CONTROL RECEIVER
○IC402
INDICATOR DRIVER
Q401, 402

NOTE : ○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

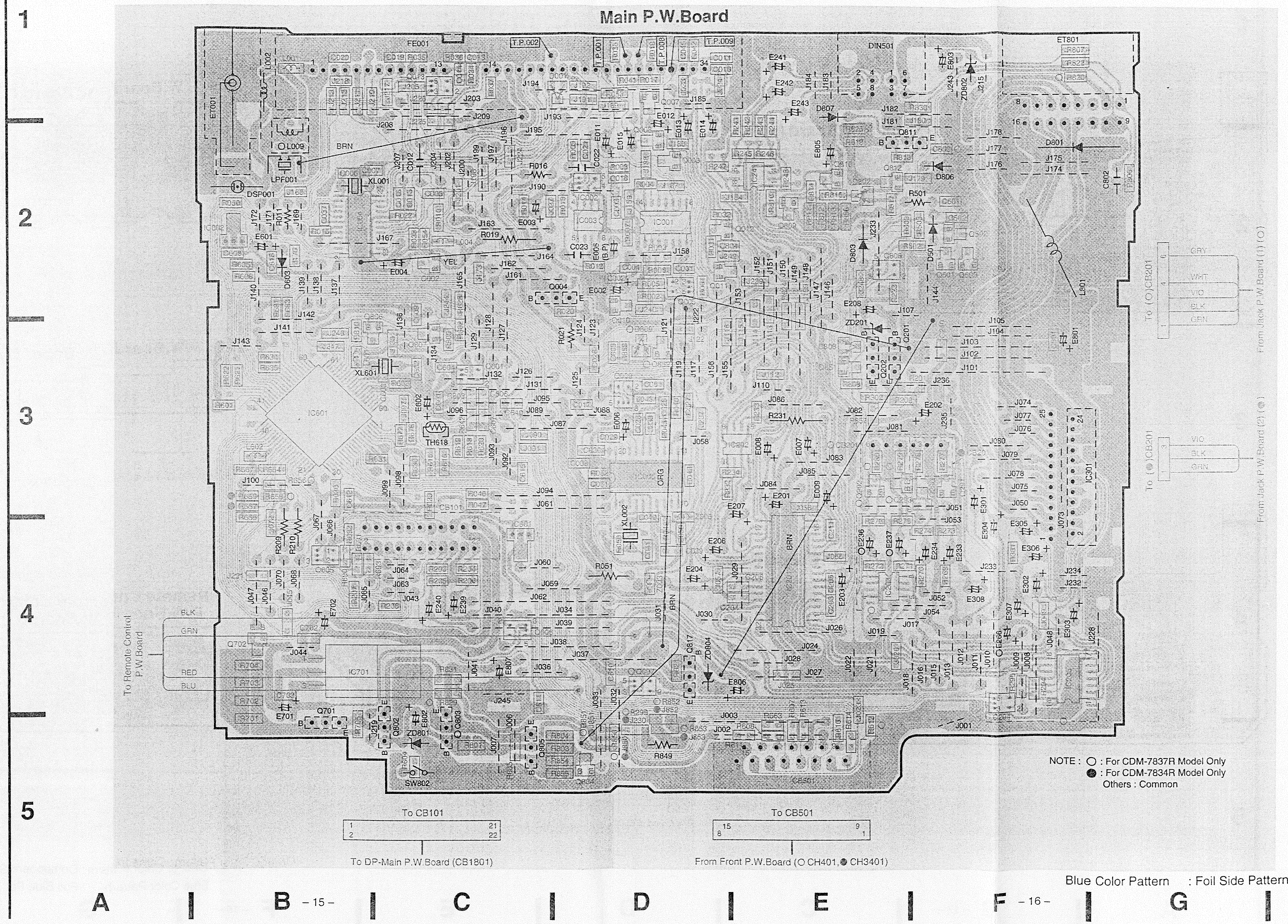
Tuner Schematic Diagram


1 AM-ANT
2 GND
3 VT
4 LO/DX
5 VCC
6 REQ
7 OSC
8 S-M
9 SD
10 SEEK (DX)
11 IFC-OUT
12 LW/MW (HI:LW 8V)
13 AF OUT/SEEK (LO)
CB2001
14 OSC
15 LO/DX
16 FM-ANT
17 GND
18 VT
19 BAND WIDTH DET/ MUTE SW
20 S-M
21 +B (FM/AM SW)
22 SD/IF/ST
23 GND
24 DET OUT
25 MPX IN
26 SEEK
27 8V (AFC)
28 8V (REF)
29 RES1 NOISE
30 MONO
31 M.P.R
32 SEP
33 L OUT
34 R OUT
CB2002
IC2101
IC2102
Q2201
Q2202
Q2203
Q2204
Q2205
Q2206
Q2207
Q2208
Q2001
L2202 AM RF
L2203 AM RF
L2204 AM OSC
T2201 AM IFT1
T2202 AM IFT2
CF2201 SFPS450H
CF2001 10.7MJ
CF2002 10.7MS
CF2101 10.7MS
L2006 FM RF
L2001 FM IFT
L2000 FM OSC
VD2201
VD2001
VD2003
VD2004
D2201
D2202
D2001
SEEK (DX)
REQ
LO/DX
AM AF
Keyd AGC
VR2102 47k
Blend
VR2101 33k
SMadj
Hi Cut
M.P.R
Sep
MPX IN
DET OUT
SD IF ST-ind
SEEK
MUTE
CL2101 612JF
L2101
L2102 12uH
E2105 10

MEMO

Parts Layout on P.W. Boards and Wiring Diagram (1/4)

All P.W. Boards viewed from soldered side.


1
2
3
4
5
Main P.W.Board
FE001
T.P.002
T.P.001
T.P.008
T.P.009
DIN501
ET801
ET001
L002
LPF001
DSP001
L009
BRN
YEL
ORG
XL001
XL601
XL002
IC001
IC003
IC601
IC701
IC301
TH618
Q004
Q201
Q202
Q702
Q701
Q802
Q803
Q805
Q811
Q817
D801
D806
D807
D803
D501
D603
ZD201
ZD801
ZD802
ZD804
L801
SW802
CB101
CB501
BLK
GRN
RED
BLU
To Remote Control P.W.Board
GRY
WHT
VIO
To (○)CB201
From Jack P.W.Board (1) (○)
To (●)CB201
From Jack P.W.Board (2) (●)
To CB101
1
21
2
22
To DP-Main P.W.Board (CB1801)
To CB501
15
9
8
1
From Front P.W.Board (○ CH401,● CH3401)
A
B
C
D
E
F
G

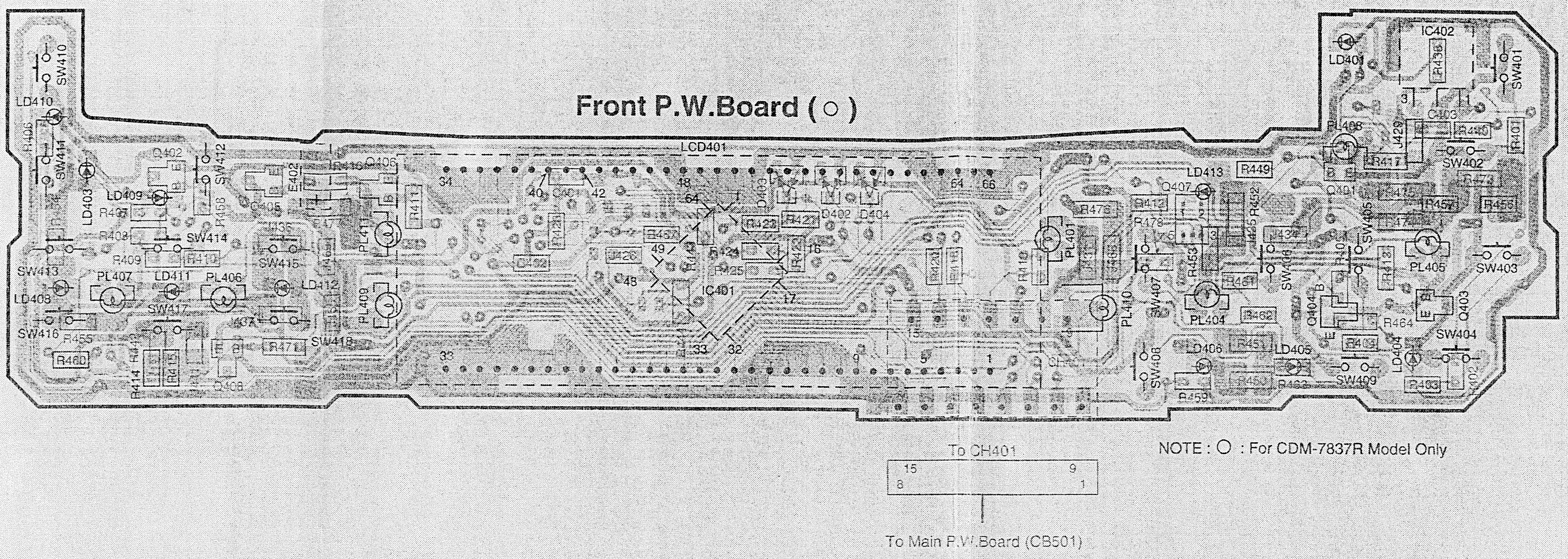
NOTE : ○ : For CDM-7837R Model Only
● : For CDM-7834R Model Only
Others : Common

Blue Color Pattern : Foil Side Pattern

Parts Layout on P.W. Boards and Wiring Diagram (2/4)

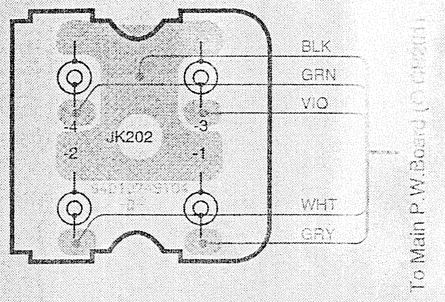
All P.W. Boards viewed from soldered side.

Front P.W.Board (○)

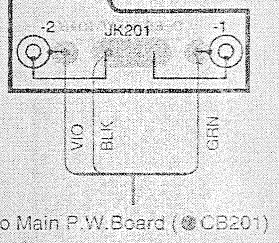

SW410
LD410
SW411
Q402
SW412
LD403
LD409
R407
R408
SW414
SW413
PL407
LD411
PL406
SW415
LD412
LD408
SW417
SW416
R455
R460
R414
R415
SW418
R471
E402
R416
R411
PL411
PL409
LCD401
40
42
34
48
64
66
49
IC401
17
33
32
15
1
D402
D404
R423
R425
R426
R437
R422
LD401
IC402
SW401
PL408
Q405
R449
R441
Q401
R417
SW402
LD413
Q407
R476
R412
R478
PL401
PL410
SW407
PL404
R452
SW406
SW405
PL405
SW403
Q404
Q403
R464
SW404
LD406
LD405
LD404
SW408
SW409
R459
R450
R453
R463
R462
R461
To CH401
15
9
8
1
To Main P.W.Board (CB501)

NOTE : ○ : For CDM-7837R Model Only

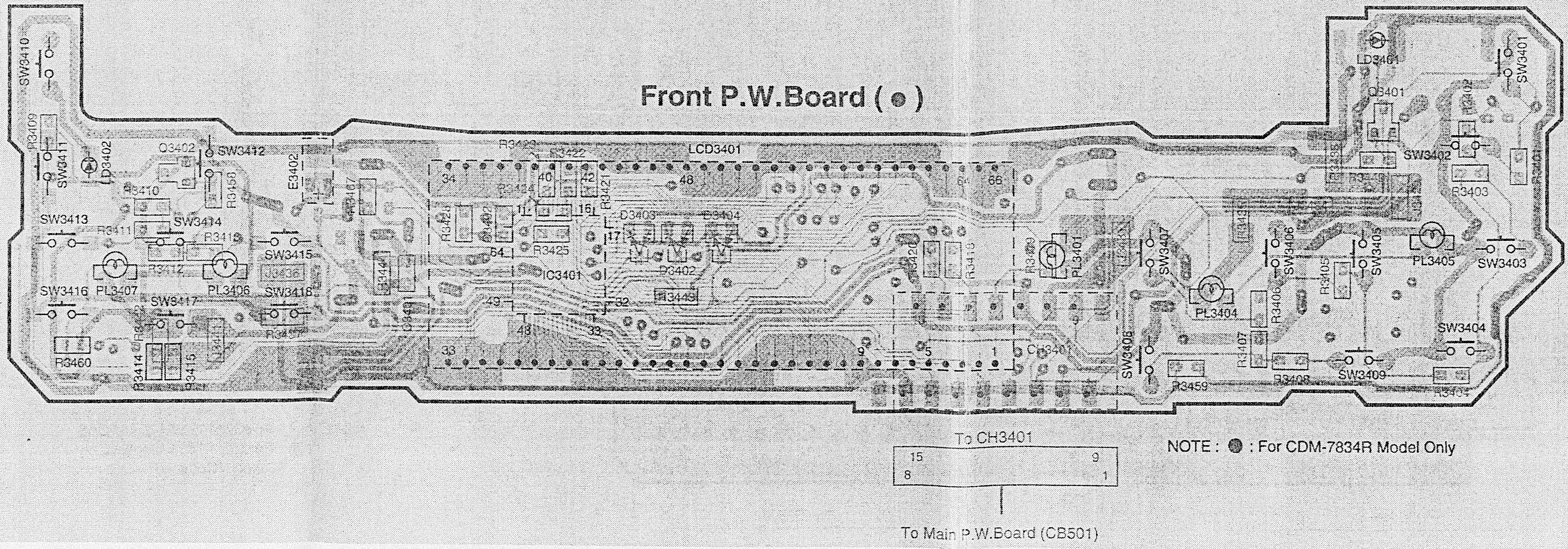
Jack P.W.Board (1) (○)


JK202
-4
-3
-2
-1
-5
BLK
GRN
VIO
WHT
GRY
To Main P.W.Board (○ CB201)

Jack P.W.Board (2) (●)

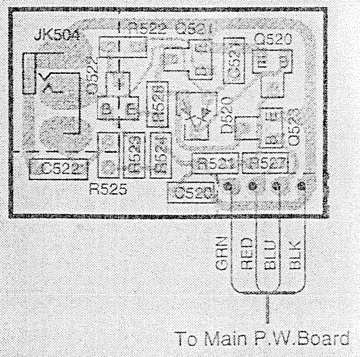

JK201
-2
-1
VIO
BLK
GRN
To Main P.W.Board (● CB201)

Front P.W.Board (●)


SW3410
R3409
SW3411
LD3402
Q3402
SW3412
E3402
R3410
SW3413
R3411
SW3414
R3418
PL3407
PL3406
SW3415
SW3416
SW3417
SW3418
R3460
R3414
R3415
LCD3401
R3423
R3422
R3421
34
40
48
66
64
17
16
IC3401
D3403
D3404
D3402
R3425
R3449
49
33
32
15
1
CH3401
LD3401
Q3401
SW3401
SW3402
R3403
R3401
PL3401
SW3407
PL3404
SW3406
SW3405
PL3405
SW3403
SW3404
SW3408
SW3409
R3459
R3407
R3408
To CH3401
15
9
8
1
To Main P.W.Board (CB501)

NOTE : ● : For CDM-7834R Model Only

Remote Control
P.W.Board(○)


JK504
R522
C521
Q520
D522
R526
R529
R524
D520
Q523
C522
R525
R521
R527
C520
GRN
RED
BLU
BLK
To Main P.W.Board

Orange Color Pattern : Component Side Patte
Blue Color Pattern : Foil Side Pattern

Parts Layout on P.W. Boards and Wiring Diagram (3/4)

All P.W. Boards viewed from soldered side.

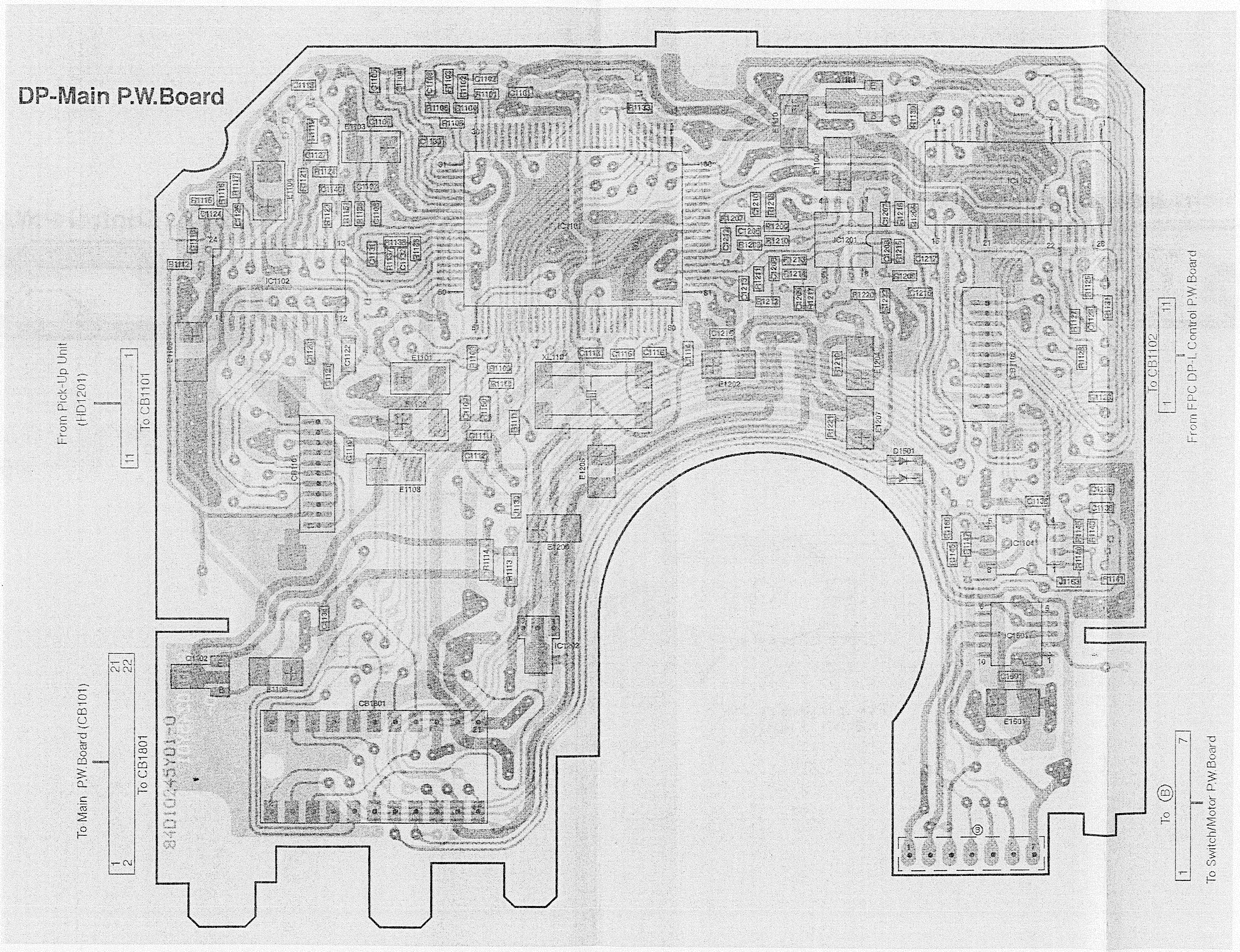
1

2

3

4

5

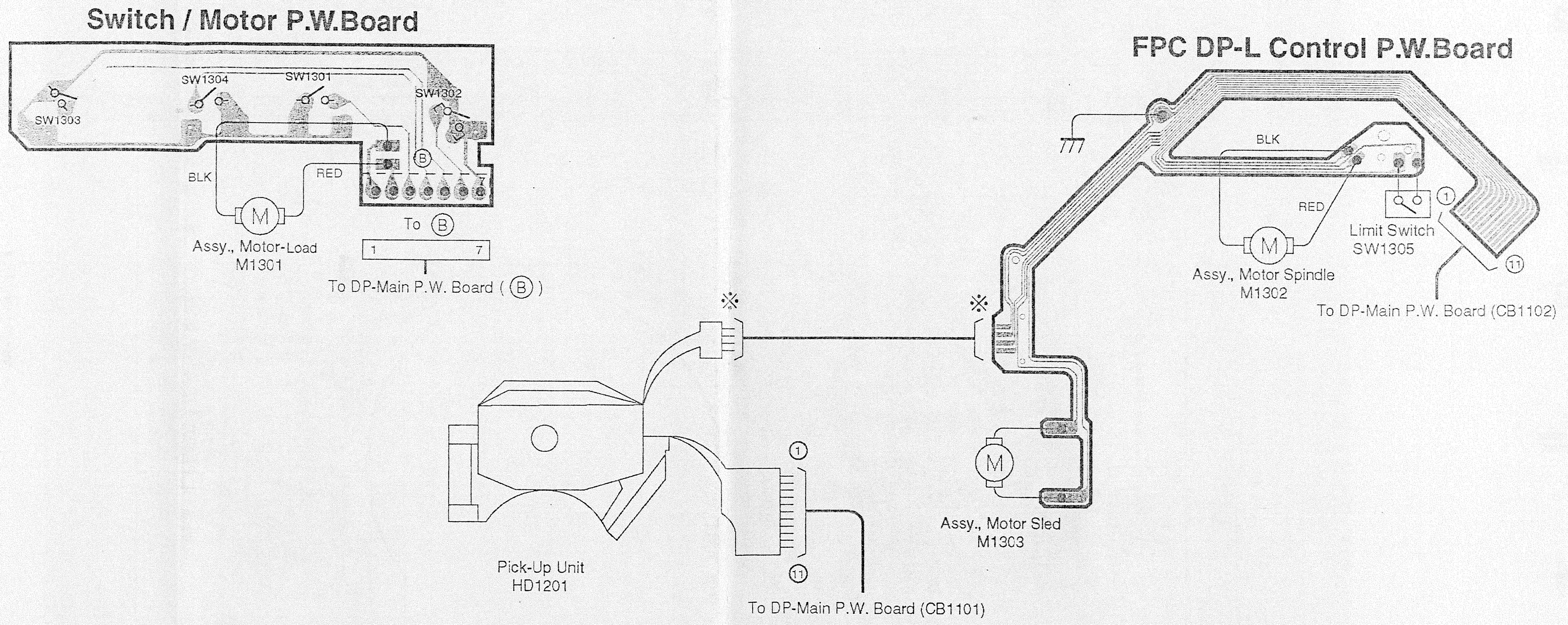

DP-Main P.W.Board
From Pick-Up Unit (HD1201)
To CB1101
1
11
To Main P.W Board (CB101)
To CB1801
21 22
1 2
To CB1102
From FPC DP-L Control P.W.Board
1
11
To Ⓑ
To Switch/Motor P.W.Board
1
7
IC1101
IC1102
IC1201
IC1202
IC1501
CB1801
XL1101
E1101
E1102
E1108
E1105
E1201
E1202
E1206
E1501
D1501

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

A | B | C | D | E | F | G |

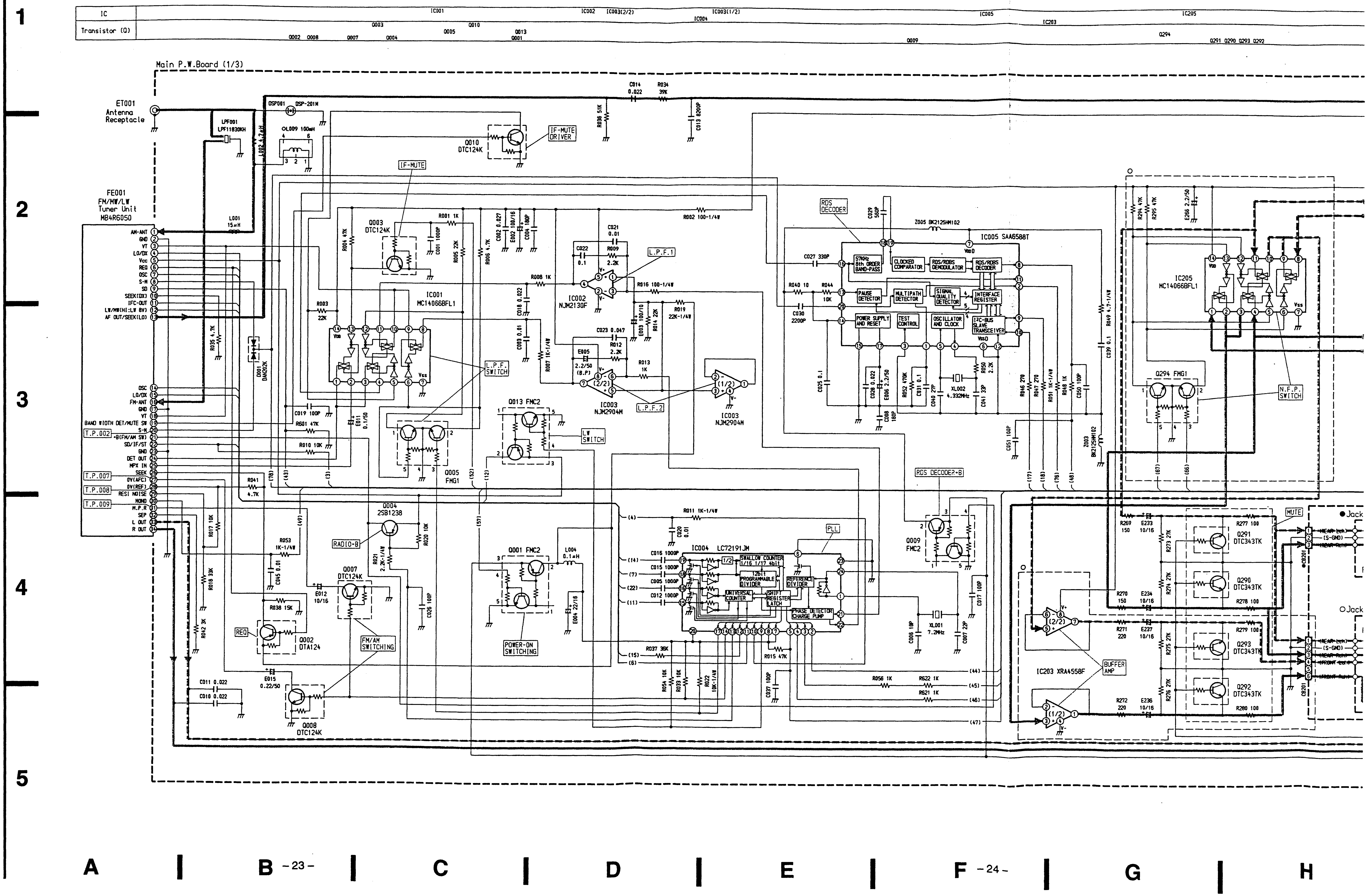
Parts Layout on P.W. Boards and Wiring Diagram (4/4)

All P.W. Boards viewed from soldered side.

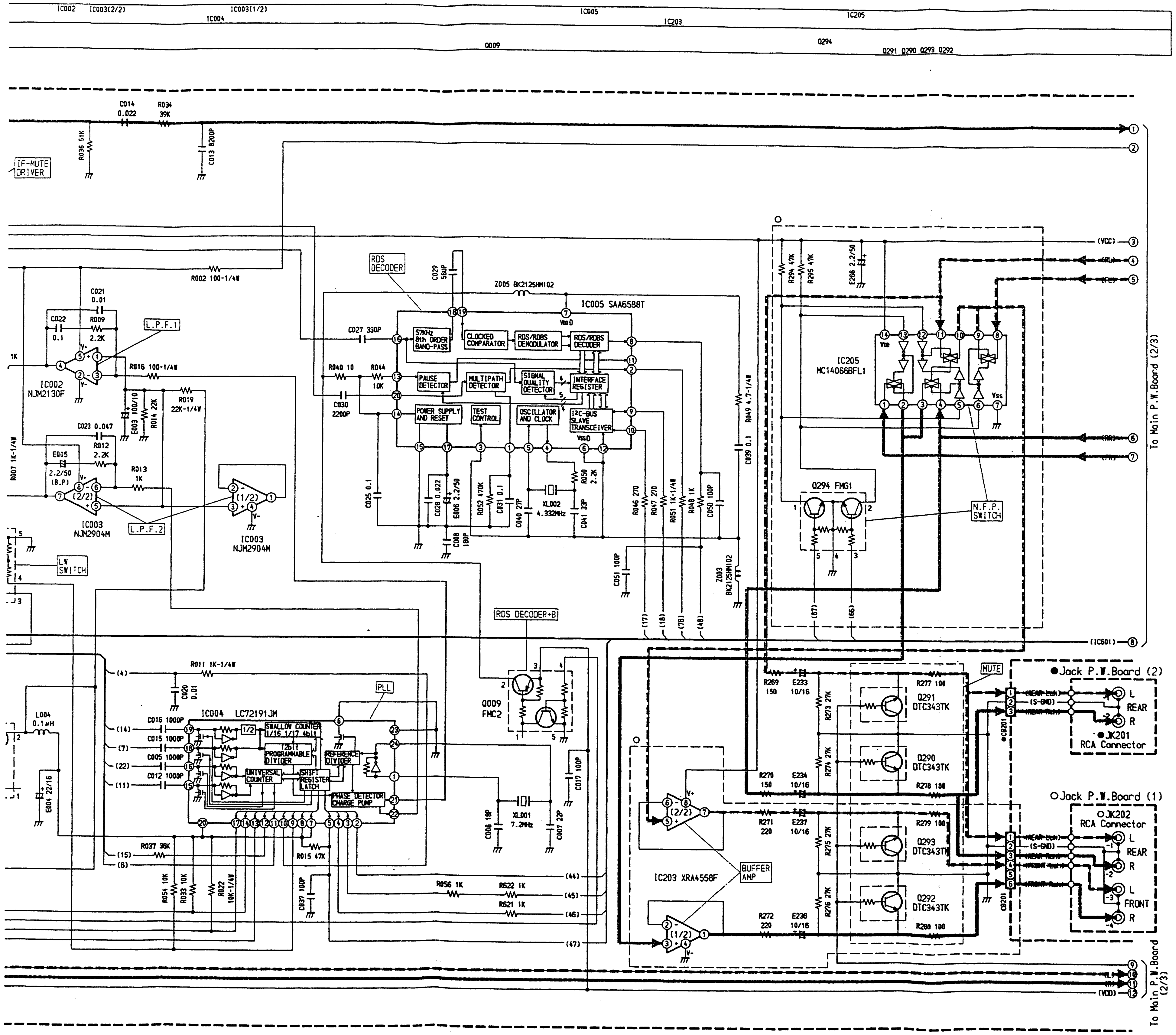

Switch / Motor P.W.Board
SW1303
SW1304
SW1301
SW1302
Ⓑ
7
BLK
RED
M
Assy., Motor-Load
M1301
To Ⓑ
1
7
To DP-Main P.W. Board (Ⓑ)
FPC DP-L Control P.W.Board
BLK
RED
M
①
Limit Switch
SW1305
⑪
Assy., Motor Spindle
M1302
To DP-Main P.W. Board (CB1102)
※
※
M
①
⑪
Assy., Motor Sled
M1303
Pick-Up Unit
HD1201
To DP-Main P.W. Board (CB1101)

Blue Color Pattern : Foil Side Pattern

Schematic Diagram (1/5)



IC
Transistor (Q)
IC001
IC002
IC003(2/2)
IC003(1/2)
IC004
IC005
IC203
IC205
Q002 Q008 Q007 Q003 Q004 Q005 Q010 Q013 Q001
Q009
Q294
Q291 Q290 Q293 Q292
Main P.W.Board (1/3)
ET001
Antenna
Receptacle
LPF001
LPF11830KH
DSP001 DSP-201M
OL009 100mH
L002 4.7μH
Q010
DTC124K
IF-MUTE DRIVER
IF-MUTE
C014 0.022
R034 39K
R036 51K
C013 8200P
FE001
FM/MW/LW
Tuner Unit
MB4R6050
AM-ANT
GND
VT
LO/OX
Vcc
REQ
OSC
S-M
SD
SEEK(OX)
IFC-OUT
LW/MW(HI:LW 8V)
AF OUT/SEEK(LO)
OSC
LO/OX
FM-ANT
GND
VT
BAND WIDTH DET/MUTE SW
S-M
+B(FM/AM SW)
SD/IF/ST
GND
DET OUT
MPX IN
SEEK
0V(AFC)
0V(REF)
RESI NOISE
MONO
M.P.R
SEP
L OUT
R OUT
T.P.002
T.P.007
T.P.008
T.P.009
L001 15μH
Q003
DTC124K
R004 47K
R001 1K
C001 1000P
R005 22K
R006 4.7K
C002 0.027
E002 100/16
C004 180P
IC001
MC14066BFL1
R003 22K
R035 4.7K
D001 DAN202K
L.P.F. SWITCH
C019 100P
R601 47K
R010 10K
E011 0.1/50
Q005
FMG1
Q013 FMC2
LW SWITCH
R008 1K
C018 0.022
C003 0.01
R007 1K-1/4W
C021 0.01
C022 0.1
R009 2.2K
IC002
NJM2130F
L.P.F.1
R016 100-1/4W
R019 22K-1/4W
E003 100/10
R014 22K
C023 0.047
R012 2.2K
E005 2.2/50 (B.P)
R013 1K
IC003
NJM2904M
L.P.F.2
R002 100-1/4W
RDS DECODER
C029 560P
Z005 BK2125HM102
IC005 SAA6588T
C027 330P
57kHz 8th ORDER BAND-PASS
CLOCKED COMPARATOR
RDS/RBDS DEMODULATOR
RDS/RBDS DECODER
R040 10
R044 10K
C030 2200P
PAUSE DETECTOR
MULTIPATH DETECTOR
SIGNAL QUALITY DETECTOR
INTERFACE REGISTER
POWER SUPPLY AND RESET
TEST CONTROL
OSCILLATOR AND CLOCK
I²C-BUS SLAVE TRANSCEIVER
VDD
VSS
C025 0.1
C028 0.022
E006 2.2/50
C008 18P
R052 470K
C031 0.1
C040 27P
XL002 4.332MHz
C041 33P
R050 2.2K
R046 270
R047 270
R051 1K-1/4W
R048 1K
C050 100P
R049 4.7-1/4W
C039 0.1
C051 100P
Z003 BK2125HM102
R041 4.7K
Q004
2SB1238
RADIO-B
R053 1K-1/4W
C045 0.01
R017 10K
R018 33K
R042 3K
R038 15K
REQ
Q002
DTA124
Q007
DTC124K
E012 10/16
R021 2.2K-1/4W
R020 10K
C026 100P
FM/AM SWITCHING
C011 0.022
C010 0.022
E015 0.22/50
Q008
DTC124K
Q001 FMC2
L004 0.1μH
E004 22/16
POWER-ON SWITCHING
R011 1K-1/4W
C020 0.01
IC004 LC72191JM
PLL
C016 1000P
C015 1000P
C005 1000P
C012 1000P
SWALLOW COUNTER 1/16 1/17 4bit
12bit PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
1/2
R037 35K
R015 47K
R054 10K
R033 10K
R022 10K-1/4W
C037 100P
C006 18P
XL001 7.2MHz
C007 22P
C017 100P
R056 1K
R622 1K
R621 1K
RDS DECODER-B
Q009
FMC2
Q294 FMG1
N.F.P. SWITCH
R294 47K
R295 47K
E266 2.2/50
IC205
MC14066BFL1
IC203 XRA4558F
BUFFER AMP
R269 150
E233 10/16
R273 27K
R270 150
E234 10/16
R274 27K
R271 220
E237 10/16
R275 27K
R272 220
E236 10/16
R276 27K
R277 100
Q291
DTC343TK
Q290
DTC343TK
R278 100
R279 100
Q293
DTC343TK
Q292
DTC343TK
R280 100
MUTE
CN201
Jack
(REAR Lch)
(S-GND)
(REAR Rch)
(FRONT Lch)
(FRONT Rch)
1
2
3
4
5
A
B
C
D
E
F
G
H


IC002
IC003(2/2)
IC003(1/2)
IC004
IC005
IC203
IC205
Q009
Q294
Q291 Q290 Q293 Q292
IF-MUTE DRIVER
L.P.F.1
L.P.F.2
IC002 NJM2130F
IC003 NJM2904M
LW SWITCH
RDS DECODER
IC005 SAA6588T
57kHz 8th ORDER BAND-PASS
CLOCKED COMPARATOR
RDS/RBDS DEMODULATOR
RDS/RBDS DECODER
PAUSE DETECTOR
MULTIPATH DETECTOR
SIGNAL QUALITY DETECTOR
INTERFACE REGISTER
POWER SUPPLY AND RESET
TEST CONTROL
OSCILLATOR AND CLOCK
I2C-BUS SLAVE TRANSCEIVER
XL002 4.332MHz
RDS DECODER-B
Q009 FMC2
PLL
IC004 LC72191JM
SWALLOW COUNTER 1/16 1/17 4bit
12bit PROGRAMMABLE DIVIDER
REFERENCE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
PHASE DETECTOR CHARGE PUMP
XL001 7.2MHz
IC205 MC14066BFL1
Q294 FMG1
N.F.P. SWITCH
MUTE
Q291 DTC343TK
Q290 DTC343TK
Q293 DTC343TK
Q292 DTC343TK
IC203 XRA4558F
BUFFER AMP
●Jack P.W.Board (2)
●JK201 RCA Connector
○Jack P.W.Board (1)
○JK202 RCA Connector
REAR
FRONT
To Main P.W.Board (2/3)

IC001

1~4	3.41V
5	13.84V
6, 7	0V
8	3.9V
9~11	4.02V
12	13.84V
13	13.81V
14	13.87V

IC002

1	2.55V
2	0V
3	2.55V
4	4.02V
5	13.87V

IC003

1~3	2.54V / 2.55V	FM / MW, LW
4	0V	
5, 6	2.54V / 2.55V	FM / MW, LW
7	6.23V / 4.67V	FM / MW, LW
8	13.87V / 13.97V	FM / MW, LW

IC004

1	PS		15, 16	0V
2~6	0V		17	3.6V
7, 8	5.08V		18	0V
9	3.63V / 0.2V	FM / MW, LW	19	2.61V
10	0V		20	5.09V
11	0.13V		21, 22	2.56V
12	4.4V		23	0V
13	0.3V / 8.7V	LW / Others	24	PS
14	2.89V			

IC005

1	1.45V	12	0V
2	2.24V	13	2.53V
3	0V	14	4.98V
4, 5	PS	15	0V
6	0V	16, 17	2.51V
7	5.06V	18	2.56V
8~10	PS	19	2.5V
11	NC	20	2.51V

○ IC203

1~3	4.37V
4	0V
5~7	4.36V
8	8.68V

○ IC205

1~4	4.33V
5	0V
6	8.58V
7	0V
8~11	4.33V
12	0V
13	8.59V
14	8.62V

	E	C	B	MODE
Q002	5.09V	5.06V	0.12V	
Q003	0V	13.8V	0V	
Q004	8.68V / 8.7V	8.61V / 0V	7.94V / 8.69V	FM / MW, LW
Q007	0V	0V	2.88V	
Q008	0V	0V	2.88V	
Q010	0V	13.84V	0V	
Q290	0V / 0V	0V / 0V	14.19V / 0V	MUTE ON / OFF
Q291	0V / 0V	0V / 0V	14.19V / 0V	MUTE ON / OFF
Q292	0V / 0V	0V / 0V	14.19V / 0V	MUTE ON / OFF
Q293	0V / 0V	0V / 0V	14.19V / 0V	MUTE ON / OFF

.	1	2	3	4	5
Q001	NC	5.2V	5.28V	5.1V	0V
Q005	0.11V	0V	3.61V	0.11V	13.87V
Q009	NC	8.59V	5.28V	5.09V	0V
Q013	NC	0.21V	8.66V	0V	8.62V
○Q294	5.24V	0V	0V	8.59V	0V

[Measuring Conditions]

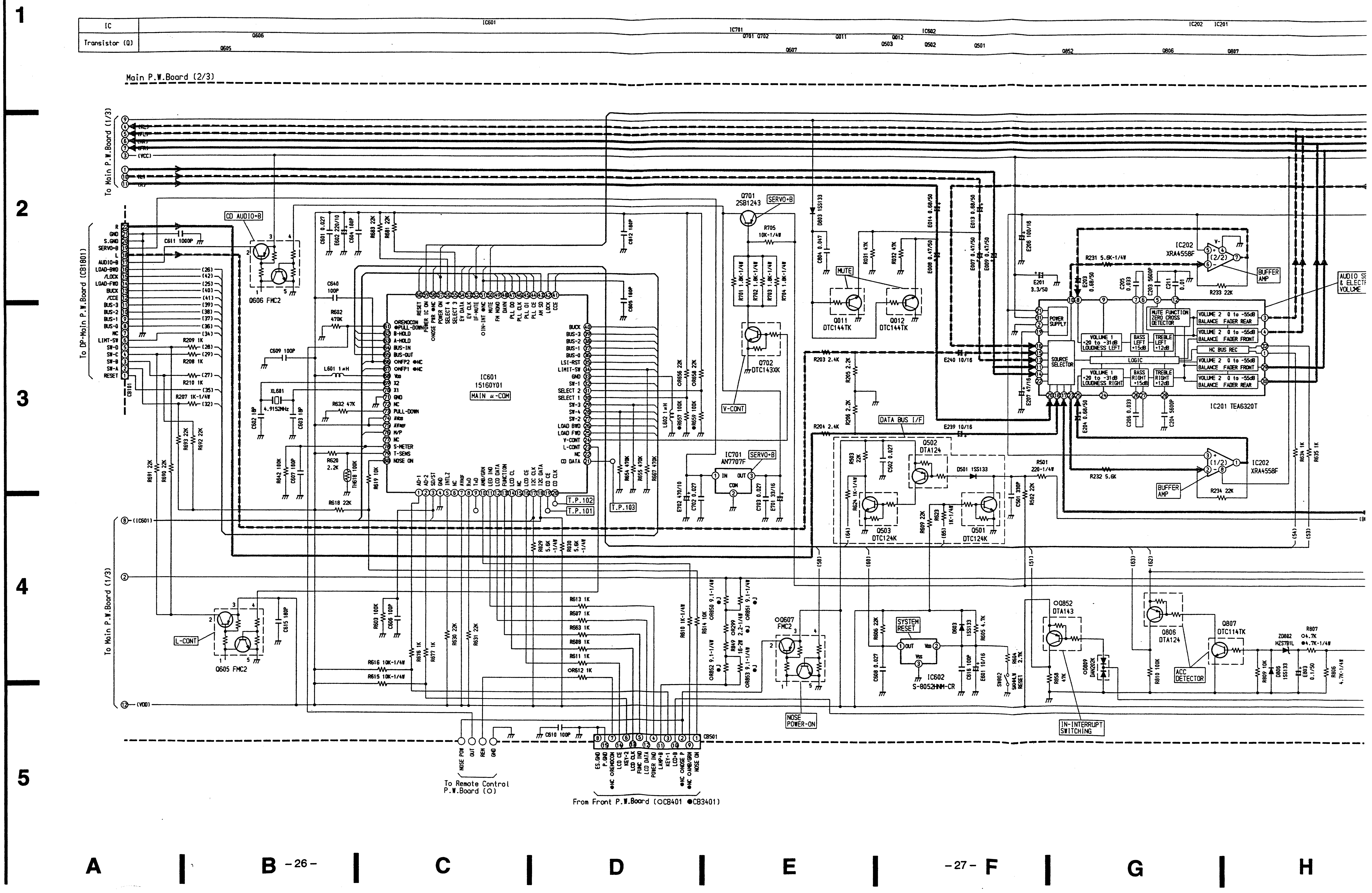
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between GND
- Measuring Conditions : Power ON
  FM : 98.1MHz
  No Modulation

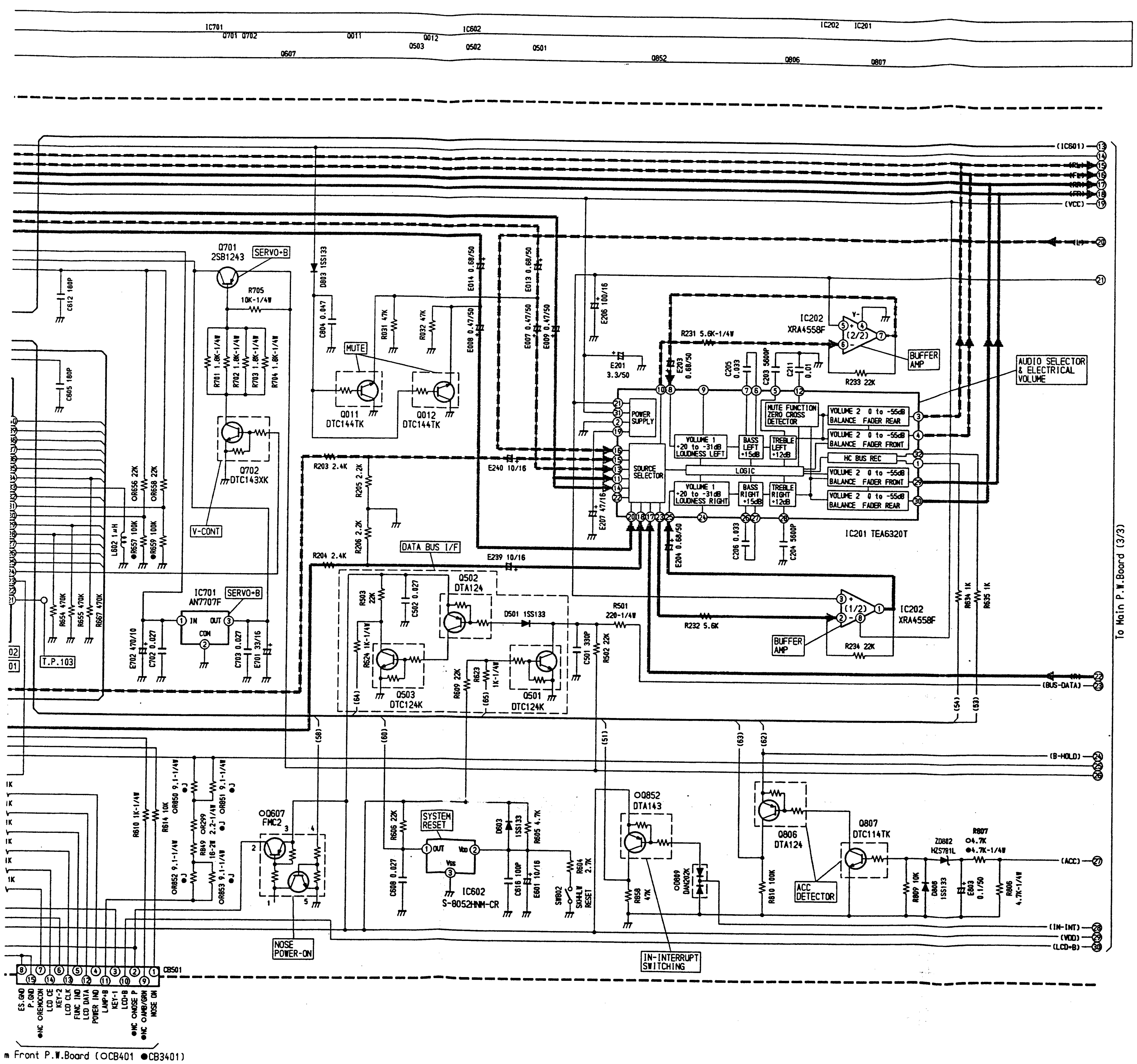
NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (2/5)


1
2
3
4
5
IC
Transistor (Q)
IC601
IC701
IC602
IC202
IC201
Q606
Q605
Q701 Q702
Q607
Q011
Q012
Q503
Q502
Q501
Q852
Q806
Q807
Main P.W.Board (2/3)
To Main P.W.Board (1/3)
To DP-Main P.W.Board (CB1801)
CD AUDIO+B
Q606 FMC2
IC601
15160Y01
MAIN μ-COM
XL601 4.9152MHz
L601 1μH
Q701 2SB1243
SERVO+B
R705 10K-1/4W
Q702 DTC143XK
V-CONT
IC701 AN7707F
MUTE
Q011 DTC144TK
Q012 DTC144TK
DATA BUS I/F
Q502 DTA124
D501 1SS133
Q503 DTC124K
Q501 DTC124K
T.P.102
T.P.101
T.P.103
IC202 XRA4558F
BUFFER AMP
POWER SUPPLY
SOURCE SELECTOR
VOLUME 1 +20 to -31dB LOUDNESS LEFT
VOLUME 1 +20 to -31dB LOUDNESS RIGHT
BASS LEFT +15dB
BASS RIGHT +15dB
TREBLE LEFT +12dB
TREBLE RIGHT +12dB
MUTE FUNCTION ZERO CROSS DETECTOR
LOGIC
VOLUME 2 0 to -55dB BALANCE FADER REAR
VOLUME 2 0 to -55dB BALANCE FADER FRONT
HC BUS REC
IC201 TEA6320T
AUDIO SE & ELECT VOLUME
L-CONT
Q605 FMC2
Q607 FMC2
NOSE POWER-ON
SYSTEM RESET
IC602 S-8052HNM-CR
SW802 SYSTEM RESET
Q852 DTA143
IN-INTERRUPT SWITCHING
Q806 DTA124
Q807 DTC114TK
ACC DETECTOR
ZD802 HZS7B1L
CB501
To Remote Control P.W.Board (O)
From Front P.W.Board (OCB401 ●CB3401)
A
B
C
D
E
F
G
H


Q701 2SB1243
SERVO-B
R705 10K-1/4W
Q702 DTC143XK
V-CONT
IC701 AN7707F
SERVO-B
T.P.103
MUTE
Q011 DTC144TK
Q012 DTC144TK
DATA BUS I/F
Q502 DTA124
Q503 DTC124K
Q501 DTC124K
D501 1SS133
IC202 XRA4558F
BUFFER AMP
AUDIO SELECTOR & ELECTRICAL VOLUME
POWER SUPPLY
SOURCE SELECTOR
VOLUME 1 +20 to -31dB LOUDNESS LEFT
BASS LEFT +15dB
TREBLE LEFT +12dB
MUTE FUNCTION ZERO CROSS DETECTOR
VOLUME 2 0 to -55dB BALANCE FADER REAR
VOLUME 2 0 to -55dB BALANCE FADER FRONT
HC BUS REC
LOGIC
VOLUME 1 +20 to -31dB LOUDNESS RIGHT
BASS RIGHT +15dB
TREBLE RIGHT +12dB
IC201 TEA6320T
Q0607 FMC2
SYSTEM RESET
IC602 S-8052HNM-CR
Q0852 DTA143
Q806 DTA124
Q807 DTC114TK
ACC DETECTOR
NOSE POWER-ON
IN-INTERRUPT SWITCHING
To Main P.W.Board (3/3)
(IC601)
(VCC)
(BUS-DATA)
(B-HOLD)
(ACC)
(IN-INT)
(VDD)
(LCD-B)
CB501
ES.GND
P.GND
LCD CE
KEY-2
LCD CLK
FUNC IND
LCD DATA
POWER IND
LAMP-B
KEY-1
LCD-B
NOSE ON
m Front P.W.Board (○CB401 ●CB3401)

IC201

1	PS	17	4.36V
2	0V	18	4.35V
3-7	4.36V	19	8.59V
8	4.3V	20	4.35V
9	NC	21	NC
10	4.36V	22	4.35V
11	4.35V	23	NC
12	8.61V	24	4.34V
13	4.34V	25	4.3V
14	4.35V	26-30	4.36V
15	4.34V	31	8.67V
16	4.35V	32	PS

IC202

1-3	4.36V
4	0V
5-7	4.36V
8	8.67V

IC602

1, 2	5.26V
3	0V

IC701

1	6.84V	CD
2	0V	
3	14.16V	CD

IC601

1, 2	5.25V	CD	32-34	0V		62	PS	CD
3	4.36V	CD	35	5.27V	CD	63	5.09V	CD
4	0V		36-41	PS	CD	64	5.27V	CD
5	5.25V	CD	42	0V		65	0V	
6	NC		43	0.2V	CD	66	○ 0V	
7	5.26V	CD	44-47	PS	FM		● NC	
8	5.25V	CD	48	5.19V	CD	67	○ 5.27V	CD
9	PS	CD	49	1.304V	CD		● NC	
10	0V		50	5.19V / 0V	MUTE ON / OFF	68	5.28V	CD
11	5.25V	CD	51	○ 0V		69, 70	PS	CD
12	PS	CD		● NC		71	0V	
13	5.25V	CD	52	0V		72	NC	
14	PS	CD	53, 54	PS	CD	73	0V	
15	NC		55	5.27V	CD	74	5.28V	CD
16-21	PS	CD	56	○ 5.27V.	CD	75	PS	CD
22	NC			● NC		76	0.12V	CD
23	0V / 5.24V	DISC IN / OUT	57	5.27V	CD	77	NC	
24	5.23V	CD	58	5.26V	CD	78	4.29V	CD
25-27	0V		59	5.27V	CD	79	5.13V	CD
28	0V / 4.98V	DISC IN / OUT	60	5.26V	CD	80	2.66V	CD
29	0V		61	○ PS	CD			
30, 31	5.27V	CD		● 0V				

	E	C	B	MODE
Q011	0V / 0V	0V / 0V	13.65V / 0V	MUTE ON / OFF
Q012	0V / 0V	0V / 0V	13.65V / 0V	MUTE ON / OFF
Q501	0V	14.27V	0.26V	
Q502	5.27V	0V	5.25V	
Q503	0V	5.25V	0V	
Q701	14.29V	0V	14.27V	
Q702	0V	14.27V	0V	
Q806	5.09V	5.08V	0V	
Q807	0V	0V	4.07V	
○Q852	5.27V	0V	5.26V	

	1	2	3	4	5
Q605	NC	0V	5.25V	0V	5.23V
Q606	NC	14.12V	8.66V	8.57V	0V
○Q607	NC	5.22V	5.24V	5.19V	0V

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between GND
- Measuring Conditions : Power ON

FM : 98.1MHz

No Modulation

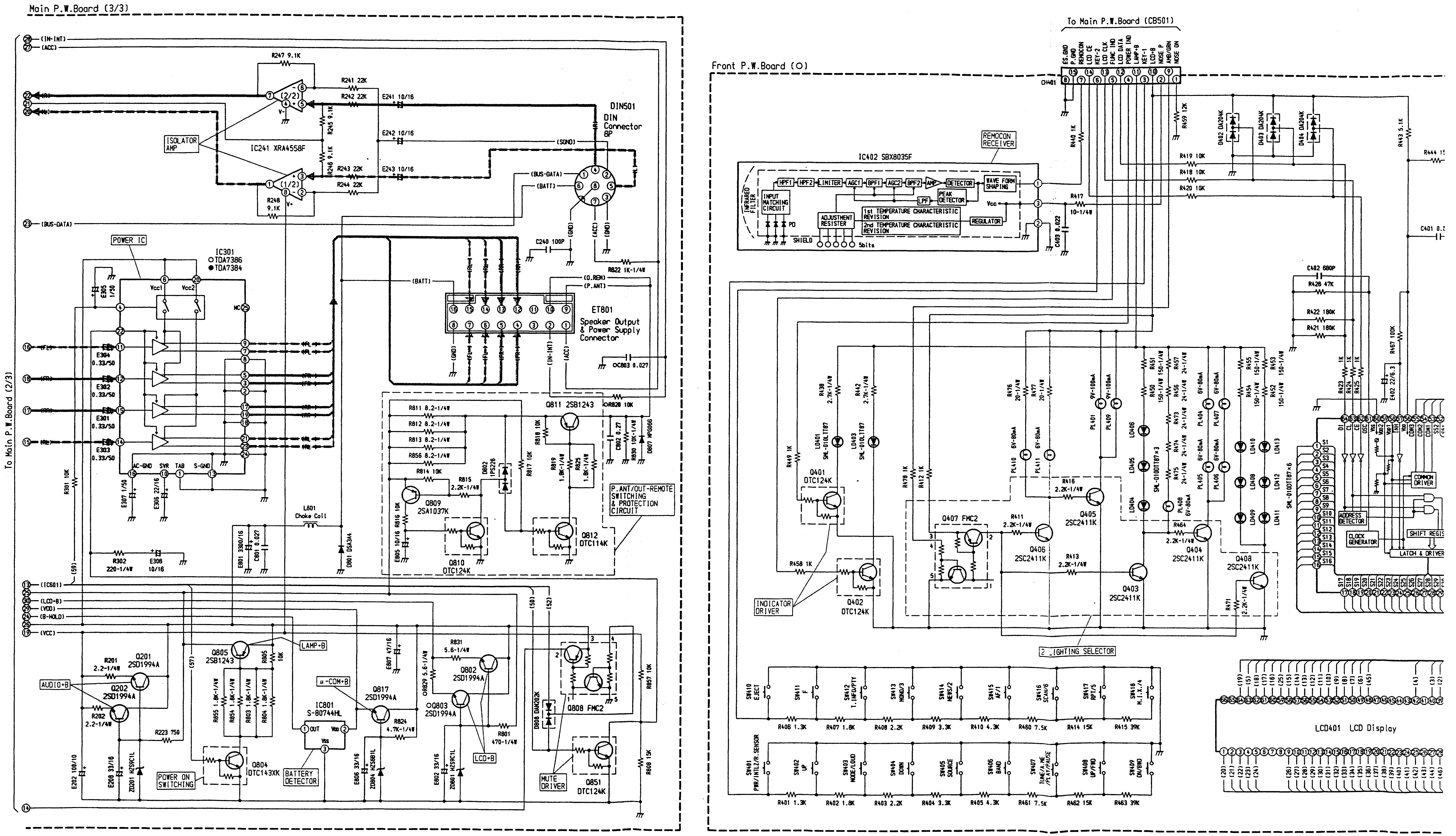
NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

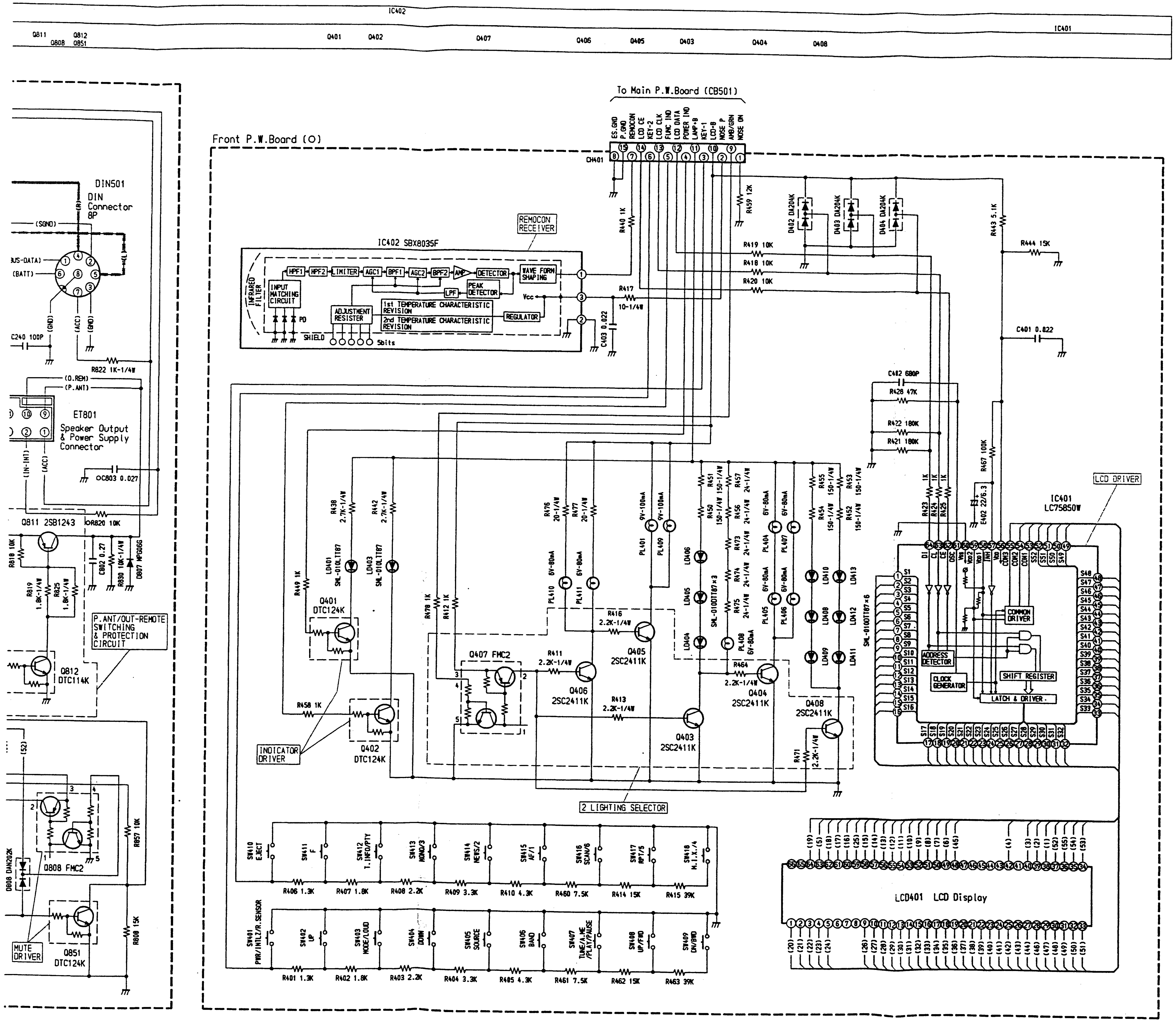
Schematic Diagram (3/5)

IC	IC301 IC241 IC801 IC402
Transistor (Q)	Q202 Q201 Q805 Q804 Q817 Q809 Q803 Q810 Q802 Q811 Q808 Q812 Q851 Q401 Q402 Q407 Q406 Q405 Q403 Q404 Q408



1
2
3
4
5
Main P.W.Board (3/3)
To Main P.W.Board (2/3)
ISOLATOR AMP
IC241 XRA4558F
DIN501
DIN Connector 8P
POWER IC
IC301
○ TDA7386
● TDA7384
ET801
Speaker Output & Power Supply Connector
L801 Choke Coil
P.ANT/OUT-REMOTE SWITCHING & PROTECTION CIRCUIT
Q811 2SB1243
Q809 2SA1037K
Q810 DTC124K
Q812 DTC114K
Q201 2SD1994A
Q202 2SD1994A
AUDIO+B
Q805 2SB1243
LAMP+B
Q804 DTC143XK
POWER ON SWITCHING
IC801 S-80744HL
BATTERY DETECTOR
u-COM+B
Q817 2SD1994A
Q802 2SD1994A
Q803 2SD1994A
LCD+B
Q808 FMC2
Q851 DTC124K
MUTE DRIVER
Front P.W.Board (O)
To Main P.W.Board (CB501)
CN401
REMOCON RECEIVER
IC402 SBX8035F
INFRARED FILTER
INPUT MATCHING CIRCUIT
HPF1
HPF2
LIMITER
AGC1
BPF1
AGC2
BPF2
AMP
DETECTOR
WAVE FORM SHAPING
LPF
PEAK DETECTOR
ADJUSTMENT RESISTER
1st TEMPERATURE CHARACTERISTIC REVISION
2nd TEMPERATURE CHARACTERISTIC REVISION
REGULATOR
SHIELD
5bits
Q401 DTC124K
Q402 DTC124K
INDICATOR DRIVER
Q407 FMC2
Q406 2SC2411K
Q405 2SC2411K
Q403 2SC2411K
Q404 2SC2411K
Q408 2SC2411K
LIGHTING SELECTOR
SW410 EJECT
SW411 F
SW412 1.INFO/PTY
SW413 MONO/3
SW414 MEMO/2
SW415 AF/1
SW416 SCAN/6
SW417 RPT/5
SW418 M.I.X./4
SW401 PWR/INTL/R.SENSOR
SW402 UP
SW403 MODE/LOUD
SW404 DOWN
SW405 SOURCE
SW406 BAND
SW407 TUNE/ME /PLAY/PAUSE
SW408 UP/FWD
SW409 DN/BWD
COMMON DRIVER
ADDRESS DETECTOR
CLOCK GENERATOR
SHIFT REGIS
LATCH & DRIVER
LCD401 LCD Display

A | B -29- | C | D | E | F -30- | G | H


IC402
IC401
Q811
Q812
Q808
Q851
Q401
Q402
Q407
Q406
Q405
Q403
Q404
Q408
To Main P.W.Board (CB501)
Front P.W.Board (O)
CN401
DIN501
DIN Connector 8P
(SGND)
BUS-DATA
(BATT)
(ACC)
(GND)
C240 100P
R822 1K-1/4W
(O.REM)
(P.ANT)
ET801
Speaker Output & Power Supply Connector
(IN-INT)
(ACC)
OC803 0.027
Q811 2SB1243
R820 10K
R818 10K
R819 1.8K-1/4W
R825 1.8K-1/4W
C802 0.27
R830 10K-1/4W
D807 MPG06G
P.ANT/OUT-REMOTE SWITCHING & PROTECTION CIRCUIT
Q812 DTC114K
Q808 FMC2
D808 DAN202K
R857 10K
R800 15K
MUTE DRIVER
Q851 DTC124K
REMOCON RECEIVER
IC402 SBX8035F
INFRARED FILTER
INPUT MATCHING CIRCUIT
HPF1
HPF2
LIMITER
AGC1
BPF1
AGC2
BPF2
AMP
DETECTOR
WAVE FORM SHAPING
PEAK DETECTOR
LPF
Vcc
ADJUSTMENT RESISTER
1st TEMPERATURE CHARACTERISTIC REVISION
2nd TEMPERATURE CHARACTERISTIC REVISION
REGULATOR
PD
SHIELD
5bits
R417 10-1/4W
C403 0.022
R440 1K
R459 12K
D402 DA204K
D403 DA204K
D404 DA204K
R419 10K
R418 10K
R420 10K
R443 5.1K
R444 15K
C401 0.022
C402 680P
R428 47K
R422 180K
R421 180K
R467 100K
E402 22/6.3
LCD DRIVER
IC401 LC75850W
ADDRESS DETECTOR
CLOCK GENERATOR
SHIFT REGISTER
LATCH & DRIVER
COMMON DRIVER
R138 2.7K-1/4W
R142 2.7K-1/4W
LD401 SML-010LT87
LD403 SML-010LT87
R449 1K
Q401 DTC124K
R458 1K
INDICATOR DRIVER
Q402 DTC124K
R478 1K
R412 1K
Q407 FMC2
R411 2.2K-1/4W
Q406 2SC2411K
R413 2.2K-1/4W
Q403 2SC2411K
R416 2.2K-1/4W
Q405 2SC2411K
R464 2.2K-1/4W
Q404 2SC2411K
Q408 2SC2411K
R471 2.2K-1/4W
2 LIGHTING SELECTOR
PL401 9V-100mA
PL409 9V-100mA
PL410 6V-80mA
PL411 6V-80mA
PL404 6V-80mA
PL407 6V-80mA
PL405 6V-80mA
PL406 6V-80mA
PL408 6V-80mA
LD404
LD405
LD406
LD408
LD409
LD410
LD411
LD412
LD413
SML-010OT87×3
SML-010OT87×6
SW410 EJECT
SW411 F
SW412 T.INFO/PTY
SW413 MONO/3
SW414 NEWS/2
SW415 AF/1
SW416 SCAN/6
SW417 RPT/5
SW418 M.I.X./4
R406 1.3K
R407 1.8K
R408 2.2K
R409 3.3K
R410 4.3K
R460 7.5K
R414 15K
R415 39K
SW401 PWR/INT/R.SENSOR
SW402 UP
SW403 MODE/LOUD
SW404 DOWN
SW405 SOURCE
SW406 BAND
SW407 TUNE/A.ME /PLAY/PAUSE
SW408 UP/FWD
SW409 DN/BWD
R401 1.3K
R402 1.8K
R403 2.2K
R404 3.3K
R405 4.3K
R461 7.5K
R462 15K
R463 39K
LCD401 LCD Display

IC241

1~3	4.34V
4	0V
5~7	4.34V
8	8.62V

IC301

1, 2	0V	14, 15	7.15V
3	7.27V	16	7.21V
4	5.27V	17	7.3V
5	7.25V	18	0V
6	14.3V	19	7.27V
7	7.3V	20	14.3V
8	0V	21	7.28V
9	7.35V	22	5.18V
10	7.22V	23	7.3V
11, 12	7.15V	24	0V
13	0V	25	NC

○ IC401

1~55	PS
56	5.42V
57	4.98V
58, 59	NC
60	0V
61~64	PS

○ IC402

1	4.98V
2	0V
3	5.22V

IC801

1	0V
2	5.27V
3	5.08V

	E	C	B	MODE		E	C	B
Q201	8.8V	14.3V	9.41V		○Q803	9.1V	14.29V	9.67V
Q202	8.81V	14.3V	9.41V		Q804	0V	0.12V	5.19V
○Q401	0V	0.26V	3.72V		Q805	14.29V	14.25V	13.59V
○Q402	0V	0.25V	4.84V		Q809	14.2V	14.2V	13.5V
○Q403	0V/ 0V	8.25V/ 0.27V	0V/ 3.03V	GRN/ ORG	Q810	0V	0V	9.7V
○Q404	0V/ 0V	0.7V/ 0.8V	7.58V/ 0.34V	GRN/ ORG	Q811	13.53V	14.2V	14.21V
○Q405	0V/ 0V	0.7V/ 0.8V	7.58V/ 0.34V	GRN/ ORG	Q812	0V	0V	7.39V
○Q406	0V/ 0V	8.25V/ 0.27V	0V/ 3.03V	GRN/ ORG	Q817	5.22V	14.29V	5.81V
○Q408	0V/ 0V	8.25V/ 0.27V	0V/ 3.03V	GRN/ ORG	Q851	0V	5.18V	5.19V
Q802	9.1V	14.29V	9.67V					

	1	2	3	4	5	MODE
○Q407	NC	0.05V/ 3.78V	8.41V/ 3.86V	0V/ 4.91V	0V/ 0V	GRN/ ORG
Q808	NC	0V	14.34V	0V	14.28V	

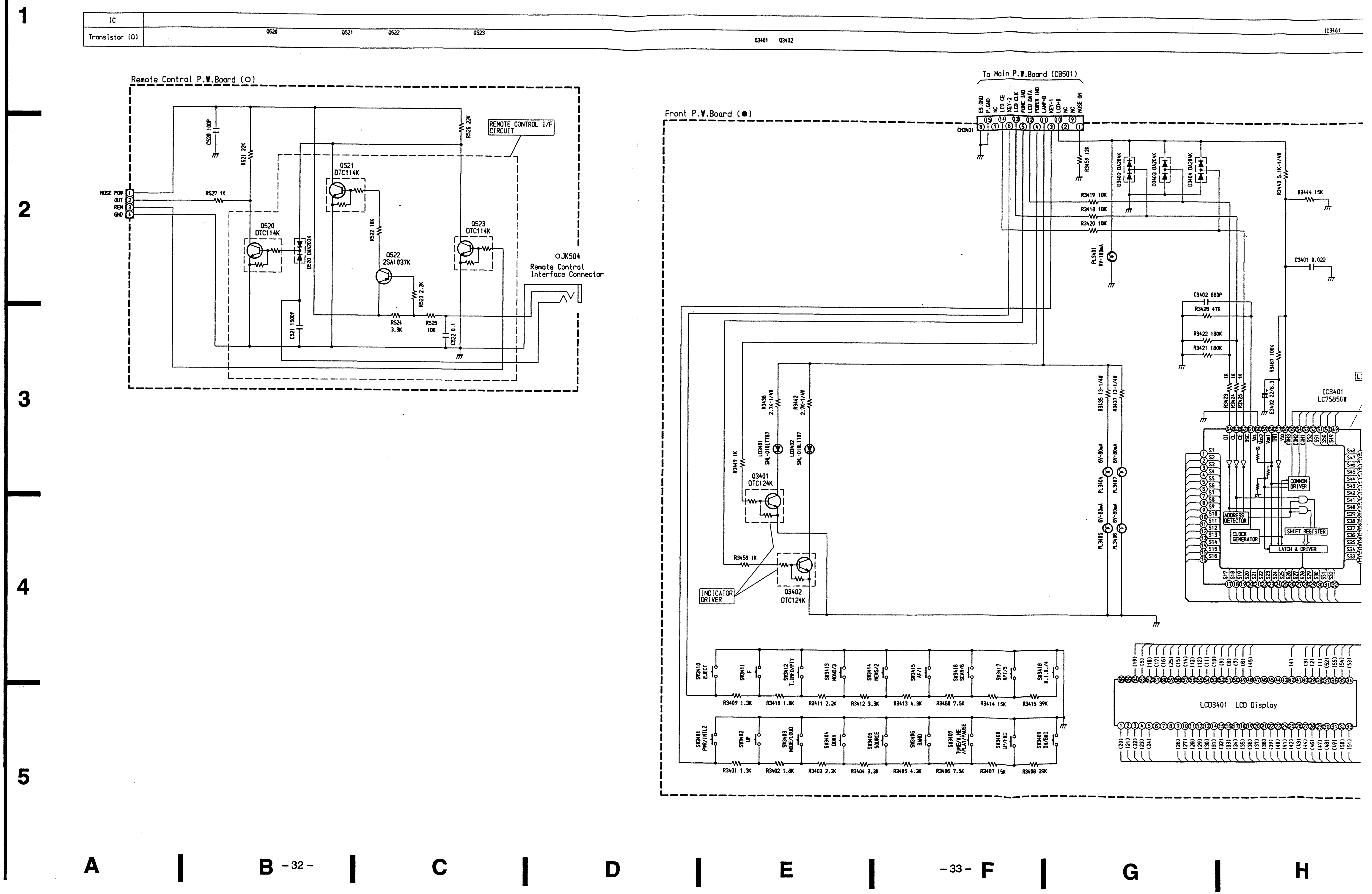
[Measuring Conditions]

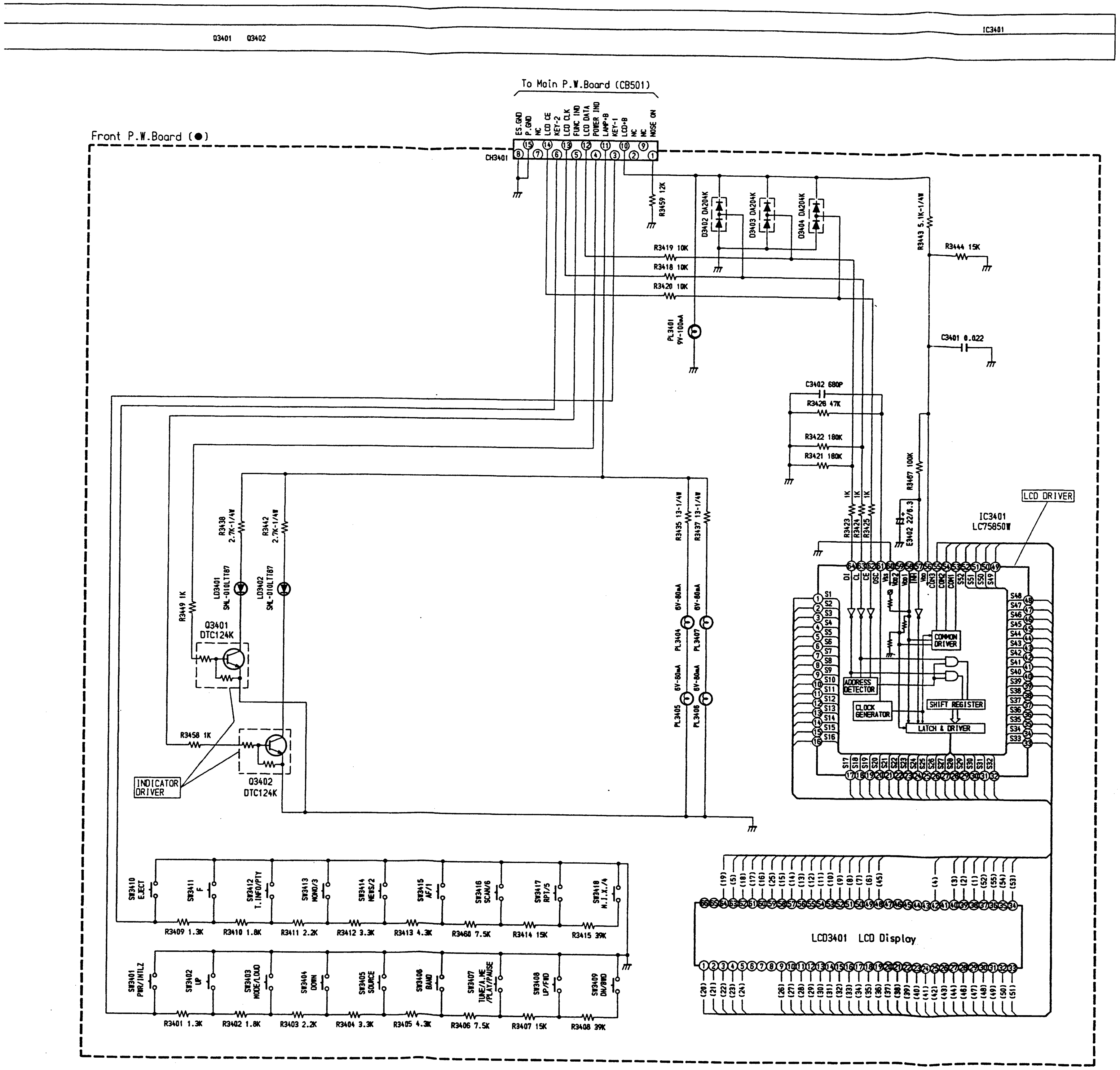
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between GND
- Measuring Conditions : Power ON
  FM : 98.1MHz
  No Modulation

NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (4/5)


1
2
3
4
5
A
B
C
D
E
F
G
H
IC
Transistor (Q)
Q520
Q521
Q522
Q523
Q3401
Q3402
IC3401
Remote Control P.W.Board (O)
C520 100P
R521 22K
R526 22K
REMOTE CONTROL I/F CIRCUIT
Q521 DTC114K
NOSE POW 1
OUT 2
REM 3
GND 4
R527 1K
Q520 DTC114K
D520 DA202K
R522 10K
Q522 2SA1037K
Q523 DTC114K
R523 2.2K
C521 1500P
R524 3.3K
R525 100
C522 0.1
JK504
Remote Control Interface Connector
Front P.W.Board (●)
To Main P.W.Board (CB501)
ES.GND
P.GND
NC
LCD CE
KEY-2
LCD CLK
FUNC IND
LCD DATA
POWER IND
LAMP+B
KEY-1
LCD+B
NC
NC
NOSE ON
CN3401
R3459 12K
D3402 DA204K
D3403 DA204K
D3404 DA204K
R3443 5.1K-1/4W
R3444 15K
R3419 10K
R3418 10K
R3420 10K
PL3401 9V-100mA
C3401 0.022
C3402 680P
R3428 47K
R3422 180K
R3421 180K
R3467 100K
R3423 1K
R3424 1K
R3425 1K
E3402 22/6.3
IC3401 LC75850W
R3435 13-1/4W
R3437 13-1/4W
R3438 2.7K-1/4W
R3442 2.7K-1/4W
LD3401 SML-010LT187
LD3402 SML-010LT187
R3449 1K
Q3401 DTC124K
PL3404 6V-80mA
PL3407 6V-80mA
PL3405 6V-80mA
PL3406 6V-80mA
R3458 1K
Q3402 DTC124K
INDICATOR DRIVER
COMMON DRIVER
ADDRESS DETECTOR
CLOCK GENERATOR
SHIFT REGISTER
LATCH & DRIVER
SW3410 EJECT
SW3411 F
SW3412 T.INFO/PTY
SW3413 MONO/3
SW3414 NEWS/2
SW3415 AF/1
SW3416 SCAN/6
SW3417 RPT/5
SW3418 M.I.X./4
R3409 1.3K
R3410 1.8K
R3411 2.2K
R3412 3.3K
R3413 4.3K
R3460 7.5K
R3414 15K
R3415 39K
SW3401 PWR/INTLZ
SW3402 UP
SW3403 MODE/LOUD
SW3404 DOWN
SW3405 SOURCE
SW3406 BAND
SW3407 TUNE/A.ME /PLAY/PAUSE
SW3408 UP/FWD
SW3409 DN/BWD
R3401 1.3K
R3402 1.8K
R3403 2.2K
R3404 3.3K
R3405 4.3K
R3406 7.5K
R3407 15K
R3408 39K
LCD3401 LCD Display


Q3401 Q3402
IC3401
To Main P.W.Board (CB501)
Front P.W.Board (●)
ES.GND
P.GND
NC
LCD CE
KEY-2
LCD CLK
FUNC IND
LCD DATA
POWER IND
LAMP+B
KEY-1
LCD+B
NC
NOSE ON
CN3401
R3459 12K
D3402 DA204K
D3403 DA204K
D3404 DA204K
R3443 5.1K-1/4W
R3444 15K
R3419 10K
R3418 10K
R3420 10K
PL3401 9V-100mA
C3401 0.022
C3402 680P
R3426 47K
R3422 180K
R3421 180K
R3447 100K
R3423 1K
R3424 1K
R3425 1K
E3402 22/6.3
LCD DRIVER
IC3401
LC75850W
R3438 2.7K-1/4W
R3442 2.7K-1/4W
R3435 13-1/4W
R3437 13-1/4W
LD3401 SML-010LT187
LD3402 SML-010LT187
R3449 1K
Q3401 DTC124K
PL3404 6V-80mA
PL3407 6V-80mA
PL3405 6V-80mA
PL3406 6V-80mA
R3458 1K
INDICATOR DRIVER
Q3402 DTC124K
COMMON DRIVER
ADDRESS DETECTOR
CLOCK GENERATOR
SHIFT REGISTER
LATCH & DRIVER
SW3410 EJECT
SW3411 F
SW3412 T.INFO/PTY
SW3413 MONO/3
SW3414 NEWS/2
SW3415 AF/1
SW3416 SCAN/6
SW3417 RPT/5
SW3418 M.I.X./4
R3409 1.3K
R3410 1.8K
R3411 2.2K
R3412 3.3K
R3413 4.3K
R3460 7.5K
R3414 15K
R3415 39K
SW3401 PWR/INTLZ
SW3402 UP
SW3403 MODE/LOUD
SW3404 DOWN
SW3405 SOURCE
SW3406 BAND
SW3407 TUNE/A.ME /PLAY/PAUSE
SW3408 UP/FWD
SW3409 DN/RWD
R3401 1.3K
R3402 1.8K
R3403 2.2K
R3404 3.3K
R3405 4.3K
R3406 7.5K
R3407 15K
R3408 39K
LCD3401 LCD Display

● IC3401

1~55	PS
56	5.44V
57	4.98V
58, 59	NC
60	0V
61~64	PS

	E	C	B
○Q520	0V	PS	PS
○Q521	0V	0V	2.79V
○Q522	5.13V	5.11V	4.5V
○Q523	0V	0V	PS
●Q3401	0V	0.26V	3.72V
●Q3402	0V	0.25V	4.84V

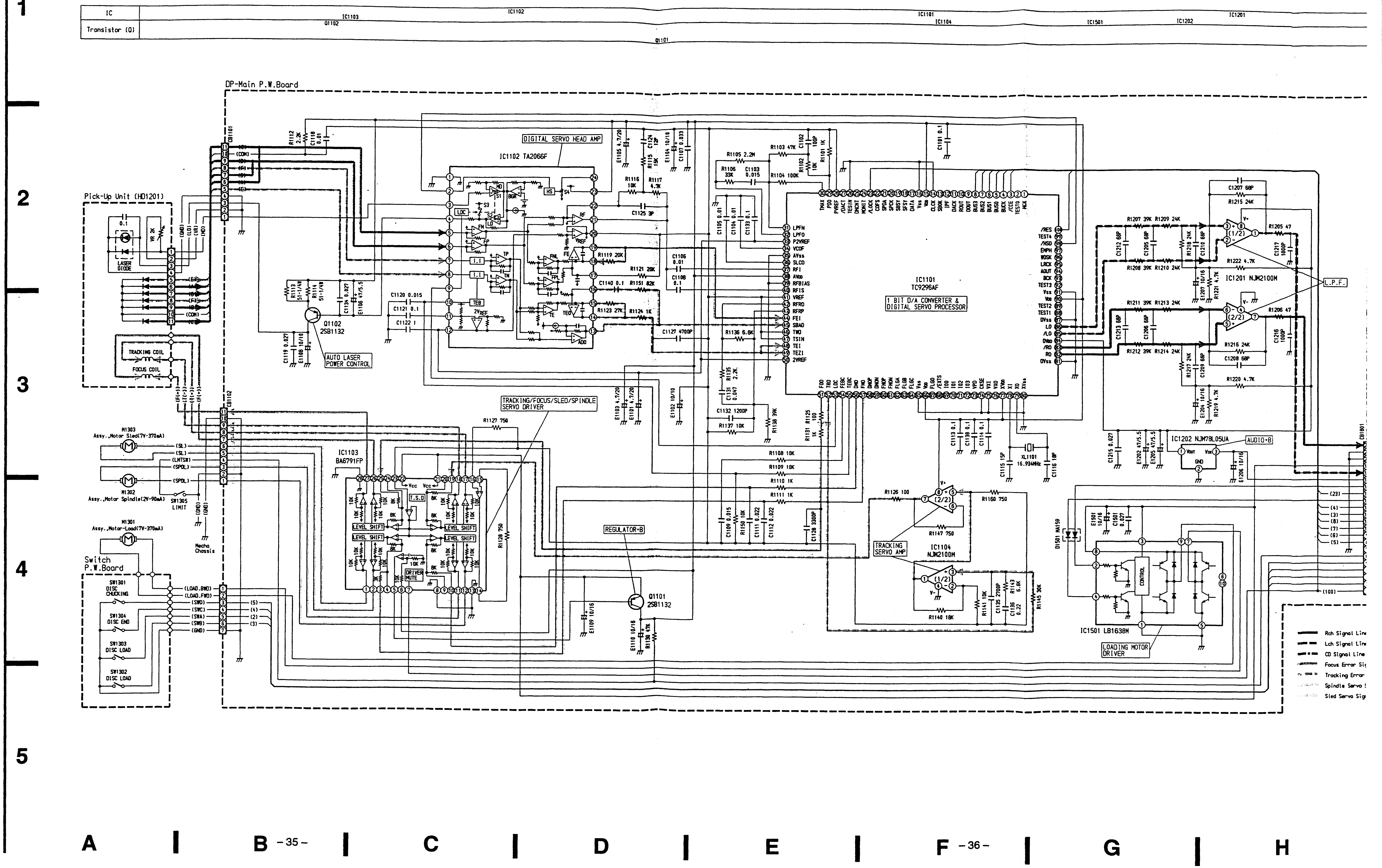
[Measuring Conditions]

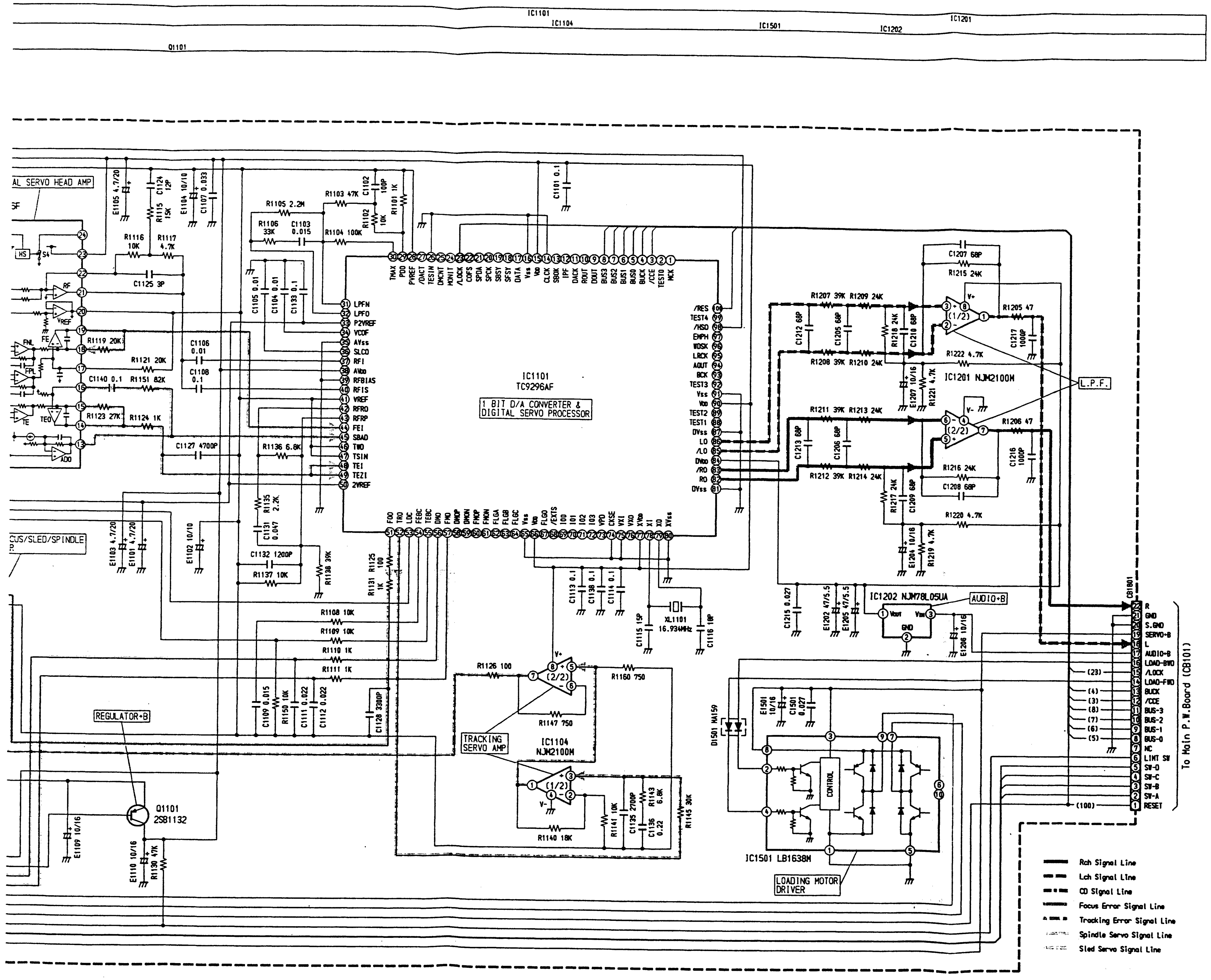
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between GND
- Measuring Conditions : Power ON
  FM : 98.1MHz
  No Modulation

NOTE : ○ : For CDM-7837R Model Only,
● : For CDM-7834R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (5/5)


IC
Transistor (Q)
IC1103
IC1102
Q1102
IC1101
IC1104
IC1501
IC1202
IC1201
Q1101
DP-Main P.W.Board
Pick-Up Unit (HD1201)
LASER DIODE
VR 2K
TRACKING COIL
FOCUS COIL
CB1101
CB1102
CB1801
DIGITAL SERVO HEAD AMP
IC1102 TA2066F
AUTO LASER POWER CONTROL
Q1102 2SB1132
IC1101 TC9296AF
1 BIT D/A CONVERTER & DIGITAL SERVO PROCESSOR
TRACKING/FOCUS/SLED/SPINDLE SERVO DRIVER
IC1103 BA6791FP
LEVEL SHIFT
DRIVER MUTE
T.S.D
REGULATOR-B
Q1101 2SB1132
TRACKING SERVO AMP
IC1104 NJM2100M
IC1201 NJM2100M
L.P.F.
IC1202 NJM78L05UA
AUDIO+B
XL1101 16.934MHz
IC1501 LB1638M
LOADING MOTOR DRIVER
CONTROL
D1501 MA159
M1303 Assy.,Motor Sled(7V-370mA)
M1302 Assy.,Motor Spindle(2V-90mA)
M1301 Assy.,Motor-Load(7V-370mA)
SW1305 LIMIT
Mecha Chassis
Switch P.W.Board
SW1301 DISC CHUCKING
SW1304 DISC END
SW1303 DISC LOAD
SW1302 DISC LOAD
Rch Signal Line
Lch Signal Line
CD Signal Line
Focus Error Signal
Tracking Error
Spindle Servo S
Sled Servo Sig
1
2
3
4
5
A
B
C
D
E
F
G
H


IC1101
IC1104
IC1501
IC1202
IC1201
Q1101
AL SERVO HEAD AMP
CUS/SLED/SPINDLE
IC1101
TC9296AF
1 BIT D/A CONVERTER &
DIGITAL SERVO PROCESSOR
IC1201 NJM2100M
L.P.F.
IC1202 NJM78L05UA
AUDIO+B
REGULATOR+B
Q1101
2SB1132
XL1101
16.934MHz
TRACKING
SERVO AMP
IC1104
NJM2100M
IC1501 LB1638M
LOADING MOTOR
DRIVER
CONTROL
D1501 MA159
CB1801
R
GND
S.GND
SERVO+B
L
AUDIO+B
LOAD-BWD
/LOCK
LOAD-FWD
BUCK
/CCE
BUS-3
BUS-2
BUS-1
BUS-0
NC
LIMT SW
SW-D
SW-C
SW-B
SW-A
RESET
To Main P.W.Board (CB101)
Rch Signal Line
Lch Signal Line
CD Signal Line
Focus Error Signal Line
Tracking Error Signal Line
Spindle Servo Signal Line
Sled Servo Signal Line

IC1101

1, 2	NC	33	4.3V	50	4.3V	82, 83	2.5V
3–9	PS	34	1.2V	51	2.1V	84	5V
10–13	NC	35	0V	52	2.2V	85, 86	2.5V
14	0V	36	2.2V	53	5V	87	0V
15	5V	37	0V	54–57	PS	88, 89	NC
16	0V	38	5V	58–64	NC	90	5V
17–22	NC	39	0V	65	0V	91	0V
23	0V	40	PS	66	5V	92–97	NC
24, 25	NC	41	2.2V	67–73	NC	98	5V
26	0V	42	3.6V	74, 75	0V	99	NC
27	NC	43	2.8V	76	NC	100	5V
28	2.1V	44	2.2V	77	5V		
29	PS	45	0V	78, 79	PS		
30–32	2.1V	46–49	2.2V	80, 81	0V		

IC1102

1	0V	13	2.7V
2	5V	14	2.2V
3	0.2V	15	2.2V
4	3.3V	16	2.2V
5	2.2V	17	2.4V
6	2.2V	18	2.4V
7	2V	19	2.3V
8	2V	20	2.2V
9	5V	21	PS
10	2.2V	22	2.2V
11	2.2V	23	5V
12	4.3V	24	NC

IC1103

1	3.3V	15	2.2V
2	3V	16	2.2V
3	2.2V	17	3.2V
4	NC	18	2.2V
5	5.5V	19	2.2V
6	5V	20	NC
7	6.3V	21	6.3V
8	0V	22	6.3V
9	NC	23	2.2V
10	2.3V	24	NC
11	3.5V	25	2.1V
12	2.9V	26	3V
13	0V	27	3.5V
14	2.2V	28	0V

IC1104

1	2.2V
2	2.2V
3	2.2V
4	0V
5	2.2V
6	2.2V
7	2.2V
8	5V

IC1201

1	2.5V
2	2.5V
3	2.5V
4	0V
5	2.5V
6	2.5V
7	2.5V
8	5V

IC1202

1	5V
2	0V
3	8.8V

IC1501

1	0V
2	0V
3	6.3V
4	0V
5	0V
6	NC
7	0V
8	6.3V
9	0V
10	NC

	E	C	B
Q1101	6.3V	5V	5.5V
Q1102	3.9V	1.8V	3.2V

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : CD : Be playing back the 2nd Music of the test CD (YEDS-18)

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Description of IC Terminal

15160Y01 : IC601

No.	Symbol	I/O	Terminal Description
1	AD-1	I	Key-1 Input Terminal.
2	AD-2	I	Key-2 Input Terminal.
3	SD / ST	I	FM Stereo Signal / SD Signal Input Terminal. (L : Receiving ST, H : Station ON)
4	GND	—	GND Connection Terminal.
5	INTLZ	I	INTLZ Action Cancellation Signal Input Terminal.
6	NC	—	No Connection Terminal.
7	AV_{REF}	—	D/ A Converter Reference Voltage Input Terminal.
8	RXD	I	RDS Monitor Input Terminal.
9	TXD	O	RDS Monitor Output Terminal.
10	AMB / GRN	O	Orange / Green Lighting Select Switching Terminal. (H : Orange)
11	LED IND	O	Active Indicator ON Control Terminal.
12	LCD DATA	O	Serial Data Signal Output Terminal to LCD Driver (LC75850W).
13	FUNCTION	O	Function LED ON Control Terminal.
14	LCD CL	O	Communication Sync. Signal Output Terminal to LCD Driver (LC75850W).
15	NC	—	No Connection Terminal.
16	LCD CE	O	CE Signal Output Terminal to LCD Driver (LC75850W).
17	I2C CLK	O	Serial Clock Output Terminal to RDS Decoder.
18	I2C DATA	I/O	Serial Data Input / Output Terminal to RDS Decoder.
19	CD CE	O	Latch Output Terminal for CD Auto Adjustment Monitor.
20	CD CLK	O	Clock Output Terminal for CD Auto Adjustment Monitor.
21	CD DATA	O	Data Output Terminal for CD Auto Adjustment Monitor.
22	NC	—	No Connection Terminal.
23	L-CONT	O	Power Control Output Terminal of Disc Detection.
24	V-CONT	O	CD Power Control Terminal.
25	LOAD FWD	O	Loading Motor Forward Driving Signal Output Terminal.
26	LOAD BWD	O	Loading Motor Backward Driving Signal Output Terminal.
27	SW-2	I	Disc Insert Detection Signal INput Terminal (2).
28	SW-4	I	Disc Chucking Position Detection Signal Input Terminal.
29	SW-3	I	Eject End Detection Signal Input Terminal.
30	SELECT 1	I	Function Set Up Terminal (1). (N.F.P. / Remote Control ON / OFF)
31	SELECT 2	I	Function Set Up Terminal (1). (2 Lit ON / OFF)
32	SW-1	I	Disc Insert Detection Signal INput Terminal (1).
33	GND	—	GND Connection Terminal.
34	LIMIT-SW	I	Inside Limit Detection Signal Input Terminal.
35	LSI-RST	O	System Reset Output Terminal to Digital Servo IC (TC9296AF).
36	BUS-0	I/O	Communication Input / Output Terminal to CD Signal Processor IC.
37	BUS-1		
38	BUS-2		
39	BUS-3		
40	BUCK	O	Communication Output Terminal to CD Signal Processor IC.

No.	Symbol	I/O	Terminal Description
41	CCE	O	Communication Output Terminal to CD Signal Processor IC.
42	LOCK	I	Lock Status Input Terminal.
43	AM SD	I	SD Input Terminal. (H : Station ON)
44	PLL CE	O	Data Signal Control Output Terminal to PLL IC (LC72191JM).
45	PLL DI	O	Serial Data Signal Control Output Terminal to PLL IC (LC72191JM).
46	PLL CLK	O	Communication Sync. Signal Control Output Terminal to PLL IC (LC72191JM).
47	PLL DO	I	Serial Data Signal Control Input Terminal from PLL IC (LC72191JM).
48	DAVN	I	RDS Data Available Input Terminal.
49	FM MONO	I/O	FM Mono ON / OFF Signal Input / Output Terminal. (H : Mono ON)
50	MUTE	O	Audio Mute Signal Output Terminal.
51	○ IN-INT	I	IN-Interrupt Input Terminal.
	● NC	—	No Connection Terminal.
52	IF-MUTE	O	IF-Mute Control Terminal.
53	EV CLK	O	Serial Clock Signal Output Terminal to Electrical Volume (TEA6320T).
54	EV DATA	O	Serial Data Signal Output Terminal to Electrical Volume (TEA6320T).
55	SELECT 3	I	Function Set Up Terminal (3). (CHG ON / OFF)
56	SELECT 4	I	Function Set Up Terminal (3). (N.F.P. Specification-H : 2 Pre Output)
57	POWER ON	O	Audio and Key Lighting Power Control Signal Output Terminal.
58	○ NOSE PWR	O	LCD Driver Power Control Output Terminal.
	● NC	—	No Connection Terminal.
59	POWER IC ON	O	Power IC Stand-by Control Signal Output Terminal.
60	RESET	I	System Reset Signal Input Terminal.
61	○ REMOCON	I	Remote Control Data Signal Input Terminal.
	● PULL-DOWN	—	Pull-Down Connection Terminal.
62	B-HOLD	I	Battery Detection Signal Input Terminal.
63	A-HOLD	I	ACC Detection Signal Input Terminal.
64	BUS-IN	I	Mini BUS Data Signal Input Terminal.
65	BUS-OUT	O	Mini BUS Data Signal Output Terminal.
66	○ NFP 2	O	Fader Output Control Terminal at N.F.P.
	● NC	—	No Connection Terminal.
67	○ NFP 1	O	Fader Output Control Terminal at N.F.P.
	● NC	—	No Connection Terminal.
68	V_{DD}	—	Power Supply Connection Terminal.
69	X2	—	System Clock OSC Circuit Connection Terminal.
70	X1		
71	GND	—	GND Connection Terminal.
72	NC	—	No Connection Terminal.
73	PULL-DOWN	—	Pull-Down Connection Terminal.
74	AV_{DD}	—	A / D, D / A Converter Analog Power Input Terminal. (Connection V_{DD})
75	AV_{REF}	—	A / D Converter Reference Voltage Input Terminal.

No.	Symbol	I/O	Terminal Description
76	M / P	I	Multi Path Rejection Input Terminal.
77	NC	—	No Connection Terminal.
78	S-METER	I	Signal -Meter Signal Input Terminal.
79	T-SENS	I	Temperature Sensor Signal Input Terminal.
80	NOSE ON	I	Front Panel Detection Signal Input Terminal.

NOTE : ○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by *schematic diagram.*

Capacitor : μ F=microfarads,pF=picofarads

Abbreviations

RES.= Resistor
C.F.= Carbon Film
M.F.= Metal Film
M.O.= Metal Oxide Film
M.P.= Metal Plate
TR. = Transistor
TRANS.= Transformer
CP. = Chip

CAP.= Capacitor
ELY.= Electrolytic
CER.= Ceramic
MYL.= Mylar
TAN.= Tantalum
POLY.= Polystyrol
PP. = Polypropylene
PLT.= Polyethylene
PF. = Polyester Film

Main P.W.Board

IC's

	Symbol No.	Part No.	Description
	IC001	51T40941U02	MC14066BFEL
	IC002	51T15605Y01	NJM2130F
	IC003	51T93333F01	NJM2904M
	IC004	51T85265W02	LC72191JM
	IC005	51T15132Y01	SAA6588T
	IC201	51T65131W01	TEA6320T
	IC202	51T65379F21	XRA4558F
○	IC203	51T65379F21	XRA4558F
○	IC205	51T40941U03	MC14066BFL1
	IC241	51T65379F21	XRA4558F
○	IC301	51T15021Y01	TDA7386
●	IC301	51T85153W01	TDA7384
	IC601	51T15160Y01	15160Y01
	IC602	51T95014F13	S-8052HNM-CR
	IC701	51T75191W05	AN7707F
	IC801	51T95563W01	S-80744HL

Transistors

	Symbol No.	Part No.	Description
	Q001	48T73888F12	CP., FMC2
	Q002	48T62966F03	CP., DTA124
	Q003	48T62967F03	CP., DTC124K
	Q004	48T84234F03	2SB1238
	Q005	48T73888F08	CP., FMG1
	Q007	48T62967F03	CP., DTC124K
	Q008	48T62967F03	CP., DTC124K
	Q009	48T73888F12	CP., FMC2
	Q010	48T62967F03	CP., DTC124K
	Q011	48T62967F22	CP., DTC144TK
	Q012	48T62967F22	CP., DTC144TK
	Q013	48T73888F12	CP., FMC2
	Q201	48T93828F01	2SD1994A
	Q202	48T93828F01	2SD1994A
	Q290	48T62967F33	CP., DTC343TK
	Q291	48T62967F33	CP., DTC343TK
○	Q292	48T62967F33	CP., DTC343TK
○	Q293	48T62967F33	CP., DTC343TK
○	Q294	48T73888F08	CP., FMG1
	Q501	48T62967F03	CP., DTC124K
	Q502	48T62966F03	CP., DTA124
	Q503	48T62967F03	CP., DTC124K
	Q605	48T73888F12	CP., FMC2
	Q606	48T73888F12	CP., FMC2
○	Q607	48T73888F12	CP., FMC2
	Q701	48T84366F01	2SB1243
	Q702	48T62967F05	CP., DTC143XK
	Q802	48T93828F01	2SD1994A
○	Q803	48T93828F01	2SD1994A
	Q804	48T62967F05	CP., DTC143XK
	Q805	48T84366F01	2SB1243
	Q806	48T62966F03	CP., DTA124
	Q807	48T62967F09	CP., DTC114TK
	Q808	48T73888F12	CP., FMC2
	Q809	48T63420F01	CP., 2SA1037K
	Q810	48T62967F03	CP., DTC124K
	Q811	48T84366F01	2SB1243
	Q812	48T62967F02	CP., DTC114K
	Q817	48T93828F01	2SD1994A
	Q851	48T62967F03	CP., DTC124K
○	Q852	48T62966F01	CP., DTA143

Diodes

	Symbol No.	Part No.	Description
	D001	48T63462F01	CP., DAN202K
	D501	48T68828F01	1SS133
	D603	48T68828F01	1SS133
	D801	48T68580F03	DSA3A4
	D802	48T85357W01	CP., 1PS226
	D803	48T68828F01	1SS133
	D806	48T68828F01	1SS133
	D807	48T85270W01	MPG06G
	D808	48T63462F01	CP., DAN202K
○	D809	48T63462F01	CP., DAN202K
	ZD201	48T83128F25	Zener, HZS9C1L
	ZD801	48T83128F25	Zener, HZS9C1L
	ZD802	48T83128F13	Zener, HZS7B1L
	ZD804	48T83128F04	Zener, HZS6B1L

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

	Symbol No.	Part No.	Description
	Coils		
	L001	24T16403W29	Inductor, CP. 15µH
	L002	24T70381F17	Inductor, 4.7µH
	L004	24T65110W04	Inductor, CP. 0.1µH
○	L009	24T94308F01	Inductor, 100mH
	L601	24T65110W16	Inductor, CP. 1µH
	L602	24T65110W16	Inductor, CP. 1µH
	L801	24T75055W09	Choke
	Crystals		
	XL001	91T85169W43	7.2MHz
	XL002	91T85169W18	4.332MHz
	XL601	91T85169W27	4.9152MHz
	Filters		
	LPF001	91T75257W02	LPF, LPF11830KH
	Z003	91T65112W06	CP., BK2125HM102
	Z005	91T65112W06	CP., BK2125HM102
	Surge Protector		
	DSP001	48T81909F01	DSP-201M
	Switch		
	SW802	40T16096W03	Tact, SKHHLW (RESET)
	Thermistor		
	TH618	48T93439F06	100K ohm
	Capacitors		
	C001	08S65128F57	CP., 1000pF
	C002	08T15399W04	CP., 0.027µF
	E002	23S75372W08	ELY., 100µF / 16V
	C003	08S65128F69	CP., 0.01µF
	E003	23S75372W02	ELY., 100µF / 10V
	C004	08S82122F43	CP., 180pF
	E004	23S75372W05	ELY., 22µF / 16V
	C005	08S65128F57	CP., 1000pF

Symbol No.	Part No.	Description
E005	23S82372F19	ELY., (B.P) 2.2µF / 50V
C006	08S82122F19	CP., 18pF
E006	23S75372W16	ELY., 2.2µF / 50V
C007	08S82122F21	CP., 22pF
E007	23S75372W13	ELY., 0.47µF / 50V
C008	08S82122F43	CP., 180pF
E008	23S75372W13	ELY., 0.47µF / 50V
E009	23S75372W13	ELY., 0.47µF / 50V
C010	08S65128F78	CP., 0.022µF
C011	08S65128F78	CP., 0.022µF
E011	23S75372W10	ELY., 0.1µF / 50V
C012	08S65480F49	CER., 1000pF
E012	23S75372W04	ELY., 10µF / 16V
C013	08S65128F68	CP., 8200pF
E013	23S75372W14	ELY., 0.68µF / 50V
C014	08S65128F78	CP., 0.022µF
E014	23S75372W14	ELY., 0.68µF / 50V
C015	08S65128F57	CP., 1000pF
E015	23S75372W11	ELY., 0.22µF / 50V
C016	08S65128F57	CP., 1000pF
C017	08S82122F37	CP., 100pF
C018	08S65128F78	CP., 0.022µF
C019	08S82122F37	CP., 100pF
C020	08S65128F69	CP., 0.01µF
C021	08S65128F69	CP., 0.01µF
C022	08T55390W29	TF, 0.1µF
C023	08T55390W25	TF, 0.047µF
C025	08S35374W01	CP., 0.1µF
C026	08S72783F23	CP., 100pF
C027	08S72783F29	CP., 330pF
C028	08S65128F78	CP., 0.022µF
C029	08S82122F55	CP., 560pF
C030	08S53332F39	CP., 2200pF
C031	08S35374W01	CP., 0.1µF
C037	08S82122F37	CP., 100pF
C039	08S35374W01	CP., 0.1µF
C040	08S82122F23	CP., 27pF
C041	08S82122F25	CP., 33pF
C045	08S65128F69	CP., 0.01µF
C050	08S82122F37	CP., 100pF
C051	08S82122F37	CP., 100pF
E201	23S75372W17	ELY., 3.3µF / 50V
E202	23S75372W02	ELY., 100µF / 10V
C203	08S65128F66	CP., 5600pF
E203	23S75372W14	ELY., 0.68µF / 50V
C204	08S65128F66	CP., 5600pF
E204	23S75372W14	ELY., 0.68µF / 50V
C205	08T15399W02	CP., 0.033µF
C206	08T15399W02	CP., 0.033µF

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

	Symbol No.	Part No.	Description
	E206	23S75372W08	ELY., 100µF / 16V
	E207	23S75372W07	ELY., 47µF / 16V
	E208	23S75372W06	ELY., 33µF / 16V
	C211	08S65128F69	CP., 0.01µF
	E233	23S75372W04	ELY., 10µF / 16V
	E234	23S75372W04	ELY., 10µF / 16V
○	E236	23S75372W04	ELY., 10µF / 16V
○	E237	23S75372W04	ELY., 10µF / 16V
	E239	23S75372W04	ELY., 10µF / 16V
	C240	08S82122F37	CP., 100pF
	E240	23S75372W04	ELY., 10µF / 16V
	E241	23S75372W04	ELY., 10µF / 16V
	E242	23S75372W04	ELY., 10µF / 16V
	E243	23S75372W04	ELY., 10µF / 16V
○	E266	23S75372W16	ELY., 2.2µF / 50V
	E301	23T95115W01	ELY., 0.33µF / 50V
	E302	23T95115W01	ELY., 0.33µF / 50V
	E303	23T95115W01	ELY., 0.33µF / 50V
	E304	23T95115W01	ELY., 0.33µF / 50V
	E305	23T95115W02	ELY., 1µF / 50V
	E306	23S75372W05	ELY., 22µF / 16V
	E307	23T95115W02	ELY., 1µF / 50V
	E308	23S75372W04	ELY., 10µF / 16V
	C501	08S82122F49	CP., 330pF
	C502	08T15399W04	CP., 0.027µF
	C601	08T15399W04	CP., 0.027µF
	E601	23S75372W04	ELY., 10µF / 16V
	C602	08S82122F19	CP., 18pF
	E602	23S75372W03	ELY., 220µF / 10V
	C603	08S82122F19	CP., 18pF
	C604	08S82122F43	CP., 180pF
	C605	08S82122F43	CP., 180pF
	C606	08S82122F37	CP., 100pF
	C607	08S82122F37	CP., 100pF
	C608	08T15399W04	CP., 0.027µF
	C609	08S82122F37	CP., 100pF
	C610	08S72783F23	CP., 100pF
	C611	08S65128F57	CP., 1000pF
	C612	08S82122F43	CP., 180pF
	C615	08S82122F43	CP., 180pF
	C616	08S82122F37	CP., 100pF
	C640	08S82122F37	CP., 100pF
	E701	23S75372W06	ELY., 33µF / 16V
	C702	08T15399W04	CP., 0.027µF
	E702	23T55378W03	ELY., 470µF / 10V
	C703	08T15399W04	CP., 0.027µF
	C801	08T15399W04	CP., 0.027µF
	E801	23T75346W03	ELY., 3300µF / 16V
	C802	08T55390W34	TF, 0.27µF

	Symbol No.	Part No.	Description
	E802	23S75372W06	ELY., 33µF / 16V
○	C803	08T15399W04	CP., 0.027µF
	E803	23S75372W10	ELY., 0.1µF / 50V
	C804	08T15399W03	CP., 0.047µF
	E805	23S75372W04	ELY., 10µF / 16V
	E806	23S75372W06	ELY., 33µF / 16V
	E807	23S75372W07	ELY., 47µF / 16V
	Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
	R001	06S64995F53	1K ohm
	R002	06S70072F29	100 ohm 1/4W
	R003	06S53330F85	22K ohm 1/8W
	R004	06S64995F93	47K ohm
	R005	06S53330F85	22K ohm 1/8W
	R006	06S70072F69	4.7K ohm 1/4W
	R007	06S70072F53	1K ohm 1/4W
	R008	06S64995F53	1K ohm
	R009	06S64995F61	2.2K ohm
	R010	06S70072F77	10K ohm
	R012	06S64995F61	2.2K ohm
	R013	06S64995F53	1K ohm
	R014	06S64995F85	22K ohm
	R015	06S64995F93	47K ohm
	R017	06S64995F77	10K ohm
	R018	06S64995F89	33K ohm
	R020	06S64995F77	10K ohm
	R022	06S70072F77	10K ohm 1/4W
	R029	06S70072F71	5.6K ohm 1/4W
	R030	06S70072F71	5.6K ohm 1/4W
	R031	06S64995F93	47K ohm
	R032	06S64995F93	47K ohm
	R033	06S64995F77	10K ohm
	R034	06S64995F91	39K ohm
	R035	06S64995F69	4.7K ohm
	R036	06S64995F94	51K ohm
	R037	06S64995F90	36K ohm
	R038	06S64995F81	15K ohm
	R040	06S64995F05	10 ohm
	R041	06S64995F69	4.7K ohm
	R042	06S64995F64	3K ohm
	R044	06S64995F77	10K ohm
	R046	06S64995F39	270 ohm
	R047	06S64995F39	270 ohm
	R048	06S64995F53	1K ohm
	R049	06S70072F01	4.7 ohm 1/4W
	R050	06S64995F61	2.2K ohm
	R052	06S64996F18	470K ohm

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

	Symbol No.	Part No.	Description
	R053	06S70072F53	1K ohm 1/4W
	R054	06S64995F77	10K ohm
	R056	06S64995F53	1K ohm
	R201	06S70072F78	2.2 ohm 1/4W
	R202	06S70072F78	2.2 ohm 1/4W
	R203	06S64995F62	2.4K ohm
	R204	06S64995F62	2.4K ohm
	R205	06S64995F61	2.2K ohm
	R206	06S64995F61	2.2K ohm
	R207	06S70072F53	1K ohm 1/4W
	R208	06S64995F53	1K ohm
	R223	06S64995F50	750 ohm
	R232	06S64995F71	5.6K ohm
	R233	06S64995F85	22K ohm
	R234	06S64995F85	22K ohm
	R241	06S64995F85	22K ohm
	R242	06S64995F85	22K ohm
	R243	06S64995F85	22K ohm
	R244	06S64995F85	22K ohm
	R245	06S64995F76	9.1K ohm
	R246	06S64995F76	9.1K ohm
	R247	06S64995F76	9.1K ohm
	R248	06S64995F76	9.1K ohm
	R269	06S64995F33	150 ohm
	R270	06S64995F33	150 ohm
○	R271	06S64995F37	220 ohm
○	R272	06S64995F37	220 ohm
	R273	06S64995F87	27K ohm
	R274	06S64995F87	27K ohm
○	R275	06S64995F87	27K ohm
○	R276	06S64995F87	27K ohm
	R277	06S64995F29	100 ohm
	R278	06S64995F29	100 ohm
○	R279	06S64995F29	100 ohm
○	R280	06S64995F29	100 ohm
○	R294	06S64995F93	47K ohm
○	R295	06S64995F93	47K ohm
○	R299	06S70072F78	2.2 ohm 1/4W
	R301	06S64995F77	10K ohm
	R302	06S70072F37	220 ohm 1/4W
	R502	06S53330F85	22K ohm 1/8W
	R503	06S53330F85	22K ohm 1/8W
	R601	06S64995F93	47K ohm
	R602	06S64996F18	470K ohm
	R603	06S64996F02	100K ohm
	R604	06S64995F63	2.7K ohm
	R605	06S64995F69	4.7K ohm
	R606	06S64995F85	22K ohm
	R607	06S64995F53	1K ohm

	Symbol No.	Part No.	Description
	R608	06S64995F53	1K ohm
	R609	06S64995F85	22K ohm
	R610	06S70072F53	1K ohm 1/4W
	R611	06S64995F53	1K ohm
○	R612	06S64995F53	1K ohm
	R613	06S64995F53	1K ohm
	R614	06S64995F77	10K ohm
	R615	06S70072F77	10K ohm 1/4W
	R616	06S70072F77	10K ohm 1/4W
	R618	06S64995F85	22K ohm
	R619	06S64995F77	10K ohm
	R620	06S64995F61	2.2K ohm
	R621	06S64995F53	1K ohm
	R622	06S64995F53	1K ohm
	R623	06S70072F53	1K ohm 1/4W
	R624	06S70072F53	1K ohm 1/4W
	R630	06S64995F85	22K ohm
	R631	06S64995F85	22K ohm
	R632	06S64995F93	47K ohm
	R634	06S64995F53	1K ohm
	R635	06S64995F53	1K ohm
	R642	06S64996F02	100K ohm
	R654	06S53331F18	470K ohm 1/8W
	R655	06S64996F18	470K ohm
○	R656	06S64995F85	22K ohm
●	R657	06S64996F02	100K ohm
○	R658	06S64995F85	22K ohm
●	R659	06S64996F02	100K ohm
	R663	06S64995F53	1K ohm
	R667	06S64996F18	470K ohm
	R676	06S64995F53	1K ohm
	R677	06S64995F53	1K ohm
	R681	06S64995F85	22K ohm
	R683	06S64995F85	22K ohm
	R690	06S64995F85	22K ohm
	R691	06S64995F85	22K ohm
	R692	06S64995F85	22K ohm
	R693	06S64995F85	22K ohm
	R701	06S70072F59	1.8K ohm 1/4W
	R702	06S70072F59	1.8K ohm 1/4W
	R703	06S70072F59	1.8K ohm 1/4W
	R704	06S70072F59	1.8K ohm 1/4W
	R705	06S70072F77	10K ohm 1/4W
	R801	06S70072F45	470 ohm 1/4W
	R803	06S70072F59	1.8K ohm 1/4W
	R804	06S70072F59	1.8K ohm 1/4W
	R805	06S53330F77	10K ohm 1/8W
	R806	06S70072F69	4.7K ohm 1/4W
○	R807	06S53330F69	4.7K ohm 1/8W

NOTE : ○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

	Symbol No.	Part No.	Description
●	R807	06S70072F69	4.7K ohm 1/4W
	R808	06S64995F81	15K ohm
	R809	06S64995F77	10K ohm
	R810	06S64996F02	100K ohm
	R811	06S70072F04	8.2 ohm 1/4W
	R812	06S70072F04	8.2 ohm 1/4W
	R813	06S70072F04	8.2 ohm 1/4W
	R814	06S64995F77	10K ohm
	R815	06S70072F61	2.2K ohm 1/4W
	R816	06S70072F77	10K ohm 1/4W
	R817	06S64995F77	10K ohm
	R818	06S64995F77	10K ohm
	R819	06S70072F59	1.8K ohm 1/4W
○	R820	06S64995F77	10K ohm
	R822	06S70072F53	1K ohm 1/4W
	R824	06S70072F69	4.7K ohm 1/4W
	R825	06S70072F59	1.8K ohm 1/4W
○	R829	06S70072F02	5.6 ohm 1/4W
	R830	06S70072F77	10K ohm 1/4W
	R831	06S70072F02	5.6 ohm 1/4W
	R849	06T85397W02	M.O., 16 ohm 2W
○	R850	06S70072F89	9.1 ohm 1/4W
○	R851	06S70072F89	9.1 ohm 1/4W
○	R852	06S70072F89	9.1 ohm 1/4W
○	R853	06S70072F89	9.1 ohm 1/4W
	R854	06S70072F59	1.8K ohm 1/4W
	R855	06S70072F59	1.8K ohm 1/4W
	R856	06S70072F04	8.2 ohm 1/4W
	R857	06S64995F77	10K ohm
	R858	06S64995F93	47K ohm

Front P.W.Board (○)

IC's

	Symbol No.	Part No.	Description
	IC401	51T55492W01	LC75850W
	IC402	51T95040W01	SBX8035F

Transistors

	Symbol No.	Part No.	Description
	Q401	48T62967F03	CP., DTC124K
	Q402	48T62967F03	CP., DTC124K
	Q403	48T63461F01	CP., 2SC2411K
	Q404	48T63461F01	CP., 2SC2411K
	Q405	48T63461F01	CP., 2SC2411K
	Q406	48T63461F01	CP., 2SC2411K

Symbol No.	Part No.	Description
Q407	48T73888F12	CP., FMC2
Q408	48T63461F01	CP., 2SC2411K

Diodes

Symbol No.	Part No.	Description
D402	48T64134F01	CP., DA204K
D403	48T64134F01	CP., DA204K
D404	48T64134F01	CP., DA204K

Lamps

Symbol No.	Part No.	Description
PL401	65T85125W06	9V-100mA
PL404	65T85350W01	6V-80mA
PL405	65T85350W01	6V-80mA
PL406	65T85350W01	6V-80mA
PL407	65T85350W01	6V-80mA
PL408	65T75233W02	CP., 6V-80mA
PL409	65T85125W06	9V-100mA
PL410	65T75233W10	CP., 6V-80mA
PL411	65T75233W10	CP., 6V-80mA

LED's

Symbol No.	Part No.	Description
LD401	48T65477W02	CP., SML-010LTT87 (RED)
LD403	48T65477W02	CP., SML-010LTT87 (RED)
LD404	48T65477W05	CP., SML-010DTT87 (ORG)
LD405	48T65477W05	CP., SML-010DTT87 (ORG)
LD406	48T65477W05	CP., SML-010DTT87 (ORG)
LD408	48T65477W05	CP., SML-010DTT87 (ORG)
LD409	48T65477W05	CP., SML-010DTT87 (ORG)
LD410	48T65477W05	CP., SML-010DTT87 (ORG)
LD411	48T65477W05	CP., SML-010DTT87 (ORG)
LD412	48T65477W05	CP., SML-010DTT87 (ORG)
LD413	48T65477W05	CP., SML-010DTT87 (ORG)

Switches

Symbol No.	Part No.	Description
SW401	40T75234W01	Tact, SKQNAC (PWR / INTLZ / R.SENSOR)
SW402	40T75234W01	Tact, SKQNAC (UP)
SW403	40T75234W01	Tact, SKQNAC (MODE / LOUD)
SW404	40T75234W01	Tact, SKQNAC (DOWN)
SW405	40T75234W01	Tact, SKQNAC (SOURCE)
SW406	40T75234W01	Tact, SKQNAC (BAND)
SW407	40T75234W01	Tact, SKQNAC (TUNE / A.ME / PLAY / PAUSE)

NOTE : ○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

Symbol No.	Part No.	Description
SW408	40T75234W01	Tact, SKQNAC (UP / FWD)
SW409	40T75234W01	Tact, SKQNAC (DN / BWD)
SW410	40T75234W01	Tact, SKQNAC (EJECT)
SW411	40T55656W06	Tact, CP. SKQMAJ001 (F)
SW412	40T55656W06	Tact, CP. SKQMAJ001 (T.INFO / PTY)
SW413	40T55656W06	Tact, CP. SKQMAJ001 (MONO / 3)
SW414	40T55656W06	Tact, CP. SKQMAJ001 (NEWS / 2)
SW415	40T55656W06	Tact, CP. SKQMAJ001 (AF / 1)
SW416	40T55656W06	Tact, CP. SKQMAJ001 (SCAN / 6)
SW417	40T55656W06	Tact, CP. SKQMAJ001 (RPT / 5)
SW418	40T55656W06	Tact, CP. SKQMAJ001 (M.I.X. / 4)
Capacitors		
C401	08S65128F78	CP., 0.022μF
C402	08S82122F57	CP., 680pF
E402	23T25191W62	CP. ELY., 22μF / 6.3V
C403	08S65128F78	CP., 0.022μF
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R401	06T15443W56	1.3K ohm
R402	06T15443W59	1.8K ohm
R403	06T15443W61	2.2K ohm
R404	06T15443W65	3.3K ohm
R405	06T15443W68	4.3K ohm
R406	06T15443W56	1.3K ohm
R407	06T15443W59	1.8K ohm
R408	06T15443W61	2.2K ohm
R409	06T15443W65	3.3K ohm
R410	06T15443W68	4.3K ohm
R411	06S70072F61	2.2K ohm 1/4W
R412	06S64995F53	1K ohm
R413	06S70072F61	2.2K ohm 1/4W
R414	06T15443W81	15K ohm
R415	06T15443W91	39K ohm
R416	06S70072F61	2.2K ohm 1/4W
R417	06S70072F05	10 ohm 1/4W
R418	06S64995F77	10K ohm
R419	06S64995F77	10K ohm
R420	06S64995F77	10K ohm
R421	06S64996F08	180K ohm
R422	06S64996F08	180K ohm
R423	06S64995F53	1K ohm
R424	06S64995F53	1K ohm
R425	06S64995F53	1K ohm

Symbol No.	Part No.	Description
R428	06S64995F93	47K ohm
R438	06S70072F63	2.7K ohm 1/4W
R440	06S64995F53	1K ohm
R442	06S70072F63	2.7K ohm 1/4W
R443	06S64995F70	5.1K ohm
R444	06S53330F81	15K ohm 1/8W
R449	06S64995F53	1K ohm
R450	06S70072F33	150 ohm 1/4W
R451	06S70072F33	150 ohm 1/4W
R452	06S70072F33	150 ohm 1/4W
R453	06S70072F33	150 ohm 1/4W
R454	06S70072F33	150 ohm 1/4W
R455	06S70072F33	150 ohm 1/4W
R456	06S70072F14	24 ohm 1/4W
R457	06S70072F14	24 ohm 1/4W
R458	06S64995F53	1K ohm
R459	06S64995F79	12K ohm
R460	06T15443W74	7.5K ohm
R461	06T15443W74	7.5K ohm
R462	06T15443W81	15K ohm
R463	06T15443W91	39K ohm
R464	06S70072F61	2.2K ohm 1/4W
R467	06S64996F02	100K ohm
R471	06S70072F61	2.2K ohm 1/4W
R473	06S70072F14	24 ohm 1/4W
R474	06S70072F14	24 ohm 1/4W
R475	06S70072F14	24 ohm 1/4W
R476	06S70072F12	20 ohm 1/4W
R477	06S70072F12	20 ohm 1/4W
R478	06S64995F53	1K ohm
Front P.W.Board (●)		
IC		
IC3401	51T55492W01	LC75850W
Transistors		
Q3401	48T62967F03	CP., DTC124K
Q3402	48T62967F03	CP., DTC124K
Diodes		
D3402	48T64134F01	CP., DA204K

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

Symbol No.	Part No.	Description
D3403	48T64134F01	CP., DA204K
D3404	48T64134F01	CP., DA204K
Lamps		
PL3401	65T85125W07	9V-100mA
PL3404	65T85350W01	6V-80mA
PL3405	65T85350W01	6V-80mA
PL3406	65T85350W01	6V-80mA
PL3407	65T85350W01	6V-80mA
LED's		
LD3401	48T65477W02	CP., SML-010LTT87 (RED)
LD3402	48T65477W02	CP., SML-010LTT87 (RED)
Switches		
SW3401	40T75234W01	Tact, SKQNAC (PWR / INTLZ)
SW3402	40T75234W01	Tact, SKQNAC (UP)
SW3403	40T75234W01	Tact, SKQNAC (MODE / LOUD)
SW3404	40T75234W01	Tact, SKQNAC (DOWN)
SW3405	40T75234W01	Tact, SKQNAC (SOURCE)
SW3406	40T75234W01	Tact, SKQNAC (BAND)
SW3407	40T75234W01	Tact, SKQNAC (TUNE / A.ME / PLAY / PAUSE)
SW3408	40T75234W01	Tact, SKQNAC (UP / FWD)
SW3409	40T75234W01	Tact, SKQNAC (DN / BWD)
SW3410	40T75234W01	Tact, SKQNAC (EJECT)
SW3411	40T55656W06	Tact, CP. SKQMAJ001 (F)
SW3412	40T55656W06	Tact, CP. SKQMAJ001 (T.INFO / PTY)
SW3413	40T55656W06	Tact, CP. SKQMAJ001 (MONO / 3)
SW3414	40T55656W06	Tact, CP. SKQMAJ001 (NEWS / 2)
SW3415	40T55656W06	Tact, CP. SKQMAJ001 (AF / 1)
SW3416	40T55656W06	Tact, CP. SKQMAJ001 (SCAN / 6)
SW3417	40T55656W06	Tact, CP. SKQMAJ001 (RPT / 5)
SW3418	40T55656W06	Tact, CP. SKQMAJ001 (M.I.X. / 4)
Capacitors		
C3401	08S65128F78	CP., 0.022μF
C3402	08S82122F57	CP., 680pF
E3402	23T25191W62	CP. ELY., 22μF / 6.3V

Symbol No.	Part No.	Description
Resistors		(All resistors are chip 1/10w±5% unless otherwise noted.)
R3401	06T15443W56	1.3K ohm
R3402	06T15443W59	1.8K ohm
R3403	06T15443W61	2.2K ohm
R3404	06T15443W65	3.3K ohm
R3405	06T15443W68	4.3K ohm
R3406	06T15443W74	7.5K ohm
R3407	06T15443W81	15K ohm
R3408	06T15443W91	39K ohm
R3409	06T15443W56	1.3K ohm
R3410	06T15443W59	1.8K ohm
R3411	06T15443W61	2.2K ohm
R3412	06T15443W65	3.3K ohm
R3413	06T15443W68	4.3K ohm
R3414	06T15443W81	15K ohm
R3415	06T15443W91	39K ohm
R3418	06S64995F77	10K ohm
R3419	06S64995F77	10K ohm
R3420	06S64995F77	10K ohm
R3421	06S64996F08	180K ohm
R3422	06S64996F08	180K ohm
R3423	06S64995F53	1K ohm
R3424	06S64995F53	1K ohm
R3425	06S64995F53	1K ohm
R3428	06S64995F93	47K ohm
R3435	06S70072F08	13 ohm 1/4W
R3437	06S70072F08	13 ohm 1/4W
R3438	06S70072F63	2.7K ohm 1/4W
R3442	06S70072F63	2.7K ohm 1/4W
R3443	06S70072F70	5.1K ohm 1/4W
R3444	06S53330F81	15K ohm 1/8W
R3449	06S64995F53	1K ohm
R3458	06S64995F53	1K ohm
R3459	06S64995F79	12K ohm
R3460	06T15443W74	7.5K ohm
R3467	06S64996F02	100K ohm
Remote Control P.W.Board (○)		
Transistors		
Q520	48T62967F02	CP., DTC114K
Q521	48T62967F02	CP., DTC114K
Q522	48T63420F01	CP., 2SA1037K
Q523	48T62967F02	CP., DTC114K

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

Symbol No.	Part No.	Description
Diode		
D520	48T63462F01	CP., DAN202K
Capacitors		
C520	08S82122F37	CP., 100pF
C521	08S82122F65	CP., 1500pF
C522	08T15807W05	CP., 0.1μF
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R521	06S64995F85	22K ohm
R522	06S64995F77	10K ohm
R523	06S64995F61	2.2K ohm
R524	06S64995F65	3.3K ohm
R525	06S64995F29	100 ohm
R526	06S64995F85	22K ohm
R527	06S64995F53	1K ohm
DP-Main P.W.Board		
IC's		
IC1101	51T75549W02	TC9296AF
IC1102	51T75548W01	TA2066F
IC1103	51T85408W01	BA6791FP
IC1104	51T16025W01	NJM2100M
IC1201	51T16025W01	NJM2100M
IC1202	51T11054W02	NJM78L05UA
IC1501	51T55288W02	LB1638M
Transistors		
Q1101	48T80611F01	CP., 2SB1132
Q1102	48T80611F01	CP., 2SB1132
Diode		
D1501	48T81063F01	CP., MA159

Symbol No.	Part No.	Description
Crystal		
XL1101	91T95099W92	CP., 16.934MHz
Capacitors		
C1101	08S35374W01	CP., 0.1μF
E1101	23S55311W42	CP. TAN., 4.7μF / 20V
C1102	08S45677W36	CP., 100pF
E1102	23S55311W23	CP. TAN., 10μF / 10V
C1103	08S65128F71	CP., 0.015μF
E1103	23S55311W42	CP. TAN., 4.7μF / 20V
C1104	08S65128F69	CP., 0.01μF
E1104	23S55311W23	CP. TAN., 10μF / 10V
C1105	08S65128F69	CP., 0.01μF
E1105	23S55311W42	CP. TAN., 4.7μF / 20V
C1106	08S65128F69	CP., 0.01μF
E1106	23T85373W03	CP. ELY., 47μF / 5.5V
C1107	08T15399W02	CP., 0.033μF
C1108	08S35374W01	CP., 0.1μF
E1108	23S55311W23	CP. TAN., 10μF / 10V
C1109	08S65128F71	CP., 0.015μF
E1109	23T85373W05	CP. ELY., 10μF / 16V
E1110	23T85373W05	CP. ELY., 10μF / 16V
C1111	08T15399W01	CP., 0.022μF
C1112	08T15399W01	CP., 0.022μF
C1113	08S35374W01	CP., 0.1μF
C1114	08S35374W01	CP., 0.1μF
C1115	08S45677W16	CP., 15pF
C1116	08S45677W18	CP., 18pF
C1118	08S65128F69	CP., 0.01μF
C1119	08S65128F79	CP., 0.027μF
C1120	08S65128F71	CP., 0.015μF
C1121	08S35374W01	CP., 0.1μF
C1122	08T65289W03	CP., 1μF
C1124	08S45677W14	CP., 12pF
C1125	08S45677W05	CP., 3pF
C1127	08S65128F65	CP., 4700pF
C1128	08S65128F63	CP., 3300pF
C1131	08T15399W03	CP., 0.047μF
C1132	08S45676W62	CP., 1200pF
C1133	08S35374W01	CP., 0.1μF
C1134	08S65128F79	CP., 0.027μF
C1135	08S65128F62	CP., 2700pF
C1136	08T55487W02	CP., 0.022μF
C1138	08S35374W01	CP., 0.1μF
C1140	08S35374W01	CP., 0.1μF
E1202	23T85373W03	CP. ELY., 47μF / 5.5V

Symbol No.	Part No.	Description
E1204	23T85373W05	CP. ELY., 10µF / 16V
C1205	08S45677W32	CP., 68pF
E1205	23T85373W03	CP. ELY., 47µF / 5.5V
C1206	08S45677W32	CP., 68pF
E1206	23T85373W05	CP. ELY., 10µF / 16V
C1207	08S45677W32	CP., 68pF
E1207	23T85373W05	CP. ELY., 10µF / 16V
C1208	08S45677W32	CP., 68pF
C1209	08S45677W32	CP., 68pF
C1210	08S45677W32	CP., 68pF
C1212	08S45677W32	CP., 68pF
C1213	08S45677W32	CP., 68pF
C1215	08S65128F79	CP., 0.027µF
C1216	08S82122F61	CP., 1000pF
C1217	08S82122F61	CP., 1000pF
C1501	08S65128F79	CP., 0.027µF
E1501	23T85373W05	CP. ELY., 10µF / 16V
Resistors		(All resistors are chip 1/16W±5% unless otherwise noted.)
R1101	06S45674W57	1K ohm
R1102	06S45674W81	10K ohm
R1103	06S45674W97	47K ohm
R1104	06S45675W06	100K ohm
R1105	06S45675W34	2.2M ohm
R1106	06S45674W93	33K ohm
R1108	06S64995F77	10K ohm 1/10W
R1109	06S45674W81	10K ohm
R1110	06S45674W57	1K ohm
R1111	06S45674W57	1K ohm
R1112	06S45674W65	2.2K ohm
R1113	06S70072F22	51 ohm 1/4W
R1114	06S70072F22	51 ohm 1/4W
R1115	06S45674W85	15K ohm
R1116	06S45674W81	10K ohm
R1117	06S45674W73	4.7K ohm
R1119	06S45674W88	20K ohm
R1121	06S45674W88	20K ohm
R1123	06S45674W91	27K ohm
R1124	06S45674W57	1K ohm
R1125	06S45674W33	100 ohm
R1126	06S45674W33	100 ohm
R1127	06S45674W54	750 ohm
R1128	06S45674W54	750 ohm
R1130	06S45674W97	47K ohm
R1131	06S45674W57	1K ohm
R1133	06S45674W49	470 ohm
R1135	06S45674W65	2.2K ohm

Symbol No.	Part No.	Description
R1136	06S45674W77	6.8K ohm
R1137	06S45674W81	10K ohm
R1138	06S45674W95	39K ohm
R1140	06S45674W87	18K ohm
R1141	06S45674W81	10K ohm
R1143	06S45674W77	6.8K ohm
R1145	06S45674W92	30K ohm
R1147	06S45674W54	750 ohm
R1150	06S64995F77	10K ohm 1/10W
R1151	06S45675W04	82K ohm
R1160	06S45674W54	750 ohm
R1205	06S45674W25	47 ohm
R1206	06S45674W25	47 ohm
R1207	06S45674W95	39K ohm
R1208	06S45674W95	39K ohm
R1209	06S45674W90	24K ohm
R1210	06S45674W90	24K ohm
R1211	06S45674W95	39K ohm
R1212	06S45674W95	39K ohm
R1213	06S45674W90	24K ohm
R1214	06S45674W90	24K ohm
R1215	06S45674W90	24K ohm
R1216	06S45674W90	24K ohm
R1217	06S45674W90	24K ohm
R1218	06S45674W90	24K ohm
R1219	06S45674W73	4.7K ohm
R1220	06S45674W73	4.7K ohm
R1221	06S45674W73	4.7K ohm
R1222	06S45674W73	4.7K ohm
Miscellaneous		
CB501	09T15299Y15	15P Connector
○ CH401	09T15298Y15	15P Connector
● CH3401	09T15298Y15	15P Connector
DIN501	09T55493W02	DIN Connector 8P
ET001	09T15174W02	Antenna Receptacle
ET801	09T55175W16	Speaker Output & Power Supply Connector
HD1201	88T55261W01	Pick-Up Unit
● JK201	09T70753F08	RCA Connector (REAR)
○ JK202	09T15385Y01	RCA Connector (FRONT / REAR)
○ JK504	09T95460W01	Remote Control Interface Connector
○ LCD401	65T15217Y01	LCD Display
● LCD3401	65T15327Y01	LCD Display
M1301	01V73300W33	Assy., Motor - Load (7V-370mA)
M1302	01V73300W35	Assy., Motor Spindle (2V-90mA)

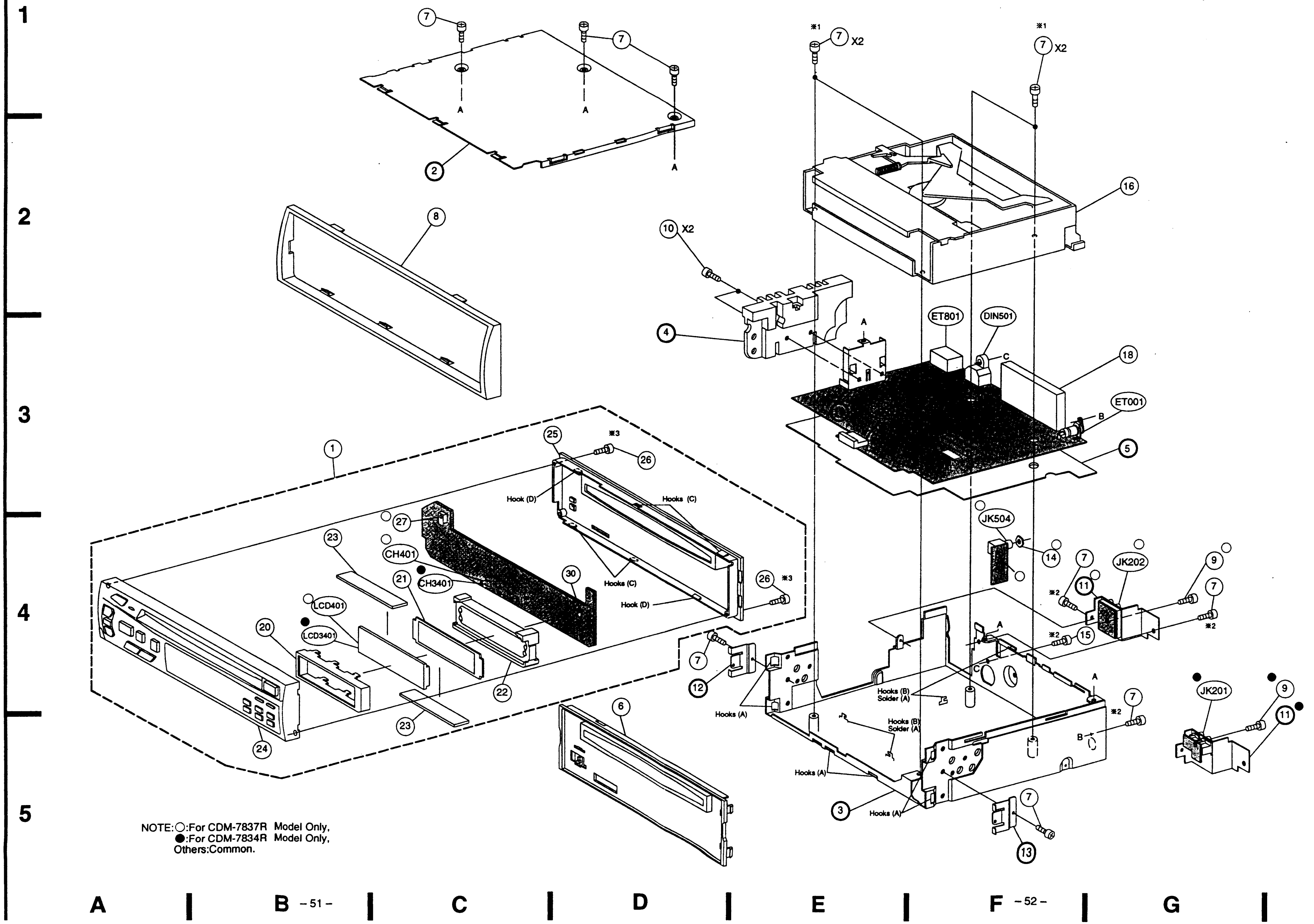
NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

Symbol No.	Part No.	Description
M1303	01V11100Y98	Assy., Motor Sled (7V-370mA)
SW1301	40T25956W02	Switch, Detector (DISC CHUCKING POSITION)
SW1302	40T25956W02	Switch, Detector (DISC LOAD)
SW1303	40T25956W01	Switch, Detector (DISC LOAD)
SW1304	40T25956W02	Switch, Detector (DISC END)
SW1305	40T71025F03	Switch, Detector (LIMIT)

Symbol No.	Part No.	Description

Exploded View (Cabinet)

NOTE : The screws marked "※1~3" are disassembly parts.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NOTE:○:For CDM-7837R Model Only,
●:For CDM-7834R Model Only,
Others:Common.

Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
○ 1	3-B	01V13700Y40	Assy., Nose Unit
● 1	3-B	01V13700Y46	Assy., Nose Unit
6	5-D	13C10783Y01	Assy., Front Escutcheon
7		03S44205G29	Screw, Pan (M2.6X6)
8	2-C	33C10618Y01	Face, Plate
9		03S40012G28	Screw, Tapping (M3X8)
10	2-D	03S38013W05	Screw, Pan (M2.6X16)
○ 14	4-F	02S40000G53	Nut, Hex. (M6)
15	4-F	03S68555F16	Screw, Pan (M2.6X8)
16	2-G	81D10183Y01	CD Deck Mechanism, DP23L23A
18	3-G	77B10459Y01	FM/MW/LW Tuner Unit, MB4R6050 (FE001)
20	4-B	15B10491Y01	Cover, LCD
○ 21	4-C	26A10492Y01	Reflector, Sheet
● 21	4-C	26A10492Y04	Reflector, Sheet
○ 22	4-C	15D10490Y01	Assy., Case LCD
● 22	4-C	15D10499Y02	Assy., Case LCD
23		75T85248W08	Rubber, Electric
○ 24	5-B	13C10471Y04	Assy., Nosepiece
● 24	5-B	13C10494Y04	Assy., Nosepiece
25	3-D	13D10486Y01	Nose, Bottom
26		03S68555F39	Screw, Pan (M1.7X10)
○ 27	4-C	07A11037Y01	Bracket, Remote
28	3-F	14S51152W44	Insulator, Cover
30	4-D	15A80548W01	Cover, LED

Symbol No.	Index	Part No.	Description

NOTE : ○: For CDM-7837R Model Only, ●: For CDM-7834R Model Only, Others : Common.

Disassembly Instructions

1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P10924Y24, 25).

2. Removal of Front Escutcheon

(1) After removal of Top Cover, Face Plate and two Bracket Side, remove six Hooks (A). .... Hooks (A) (5-E)

3. Removal of CD Deck Mechanism

(1) After removal of Front Escutcheon, remove four screws No.7. .... Screws No. 7 (※1) (1-E, 1-F)

(2) Disconnect one connector from Main P.W.Board.

4. Removal of Main P.W. Board

(1) After removal of CD Deck Mechanism, remove four screws No. 7 and No. 15. .... Screw No. 7 (※2) (4-F, 4-G, 5-G) Screw No. 15 (※2) (4-F)

(2) Remove a Nut No. 14 (○). .... Nut No. 14 (4-F)

(3) Remove four points of Solder (A) and four Hooks (B). .... Solder (A) (5-E) Hooks (B) (5-E)

(4) Main P.W.Board with Jack P.W.Board (1) and Remote Control P.W.Board can be removed completely. (○)

(4) Main P.W.Board with Jack P.W.Board (2) can be removed completely. (●)

5. Removal of Front P.W. Board

(1) After removal of Nose Unit, remove two screws No.26. .... Screws No. 26 (※3) (3-D, 4-E)

(2) Remove four Hooks (C), and remove Nosepiece. .... Hooks (C) (3-D, 4-D)

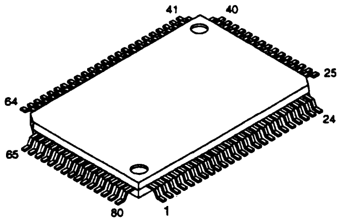
(3) Remove two Hooks (D), and remove Front P.W.Board. .... Hooks (D) (3-C, 4-D)

NOTE: For the screws No., Nut No., Hook and Solder, refer to the Exploded View (Cabinet).
○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

Semi-Conductor Lead Identifications

NOTE : For the parts not mentioned, refer to the Schematic Diagram.

15160Y01 : IC601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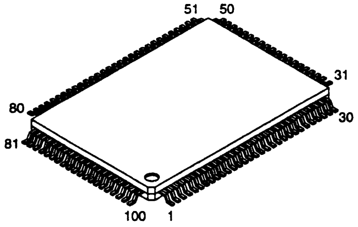
PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O		PIN NO.	CODE ADDRESS	I/O		PIN NO.	CODE ADDRESS	I/O
1	AD-1	I	23	L-CONT	O		45	PLL DI	O		64	BUS-IN	I
2	AD-2	I	24	V-CONT	O		46	PLL CLK	O		65	BUS-OUT	O
3	SD / ST	I	25	LOAD FWD	O		47	PLL DO	I	○	66	NFP 2	O
4	GND	—	26	LOAD BWD	O		48	DAVN	I	●		NC	—
5	INTLZ	I	27	SW-2	I		49	FM MONO	I/O	○	67	NFP 1	O
6	NC	—	28	SW-4	I		50	MUTE	O	●		NC	—
7	AV_{REF}	—	29	SW-3	I	○	51	IN-INT	I		68	V_{DD}	—
8	RXD	I	30	SELECT 1	I	●		NC	—		69	X2	—
9	TXD	O	31	SELECT 2	I		52	IF-MUTE	O		70	X1	—
10	AMB / GRN	O	32	SW-1	I		53	EV CLK	O		71	GND	—
11	LED IND	O	33	GND	—		54	EV DATA	O		72	NC	—
12	LCD DATA	O	34	LIMIT-SW	I		55	SELECT 3	I		73	PULL-DOWN	—
13	FUNCTION	O	35	LSI-RST	O		56	SELECT 4	I		74	AV_{DD}	—
14	LCD CL	O	36	BUS-0	I/O		57	POWER ON	O		75	AV_{REF}	—
15	NC	—	37	BUS-1	I/O	○	58	NOSE PWR	O		76	M / P	I
16	LCD CE	O	38	BUS-2	I/O	●		NC	—		77	NC	—
17	I2C CLK	O	39	BUS-3	I/O		59	POWER IC ON	O		78	S-METER	I
18	I2C DATA	I/O	40	BUCK	O		60	RESET	I		79	T-SENS	I
19	CD CE	O	41	CCE	O	○	61	REMOCON	I		80	NOSE ON	I
20	CD CLK	O	42	LOCK	I	●		PULL-DOWN	—				
21	CD DATA	O	43	AM SD	I		62	B-HOLD	I				
22	NC	—	44	PLL CE	O		63	A-HOLD	I				

TC9296AF: IC1101 (DP23L23A)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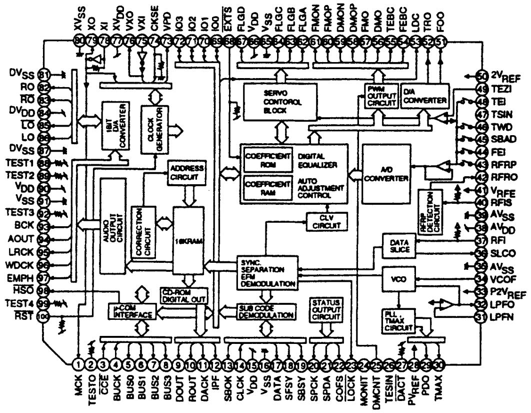
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FEBC
LDC
TRO
FOO
DVSS
RO
RO
DVDD
LO
LO
DVSS
TEST1
TEST2
VDD
VSS
TEST3
BCK
AOUT
LRCK
WDCK
EMPH
HSO
TEST4
RST
2VREF
TEZI
TEI
TSIN
TWD
SBAD
FEI
RFRP
RFRO
VRFE
RFIS
AVSS
AVDD
RFI
SLCO
AVSS
VCOF
P2VREF
LPFO
LPFN
MCK
TESTO
ZCE
BUCK
BUS0
BUS1
BUS2
BUS3
DOUT
ROUT
DACK
IPF
SBOK
CLCK
VDD
VSS
DATA
SFSY
SBSY
SPCK
SPDA
COFS
LOCK
MONIT
DMCNT
TESIN
DACT
PVREF
PDO
TMAX
SERVO CONTOROL BLOCK
PWM OUTPUT CIRCUIT
D/A CONVERTER
1BIT D/A CONVERTER
CLOCK GENERATOR
ADDRESS CIRCUIT
COEFFICIENT ROM
DIGITAL EQUALIZER
COEFFICIENT RAM
AUTO ADJUSTMENT CONTROL
A/D CONVERTER
AUDIO OUTPUT CIRCUIT
CORRECTION CIRCUIT
16KRAM
CLV CIRCUIT
RFRP DETECTION CIRCUIT
DATA SLICE
SYNC. SEPARATION EFM DEMODULATION
VCO
CD-ROM DIGITAL OUT
µ-COM INTERFACE
SUB CODE DEMODULATION
STATUS OUTPUT CIRCUIT
PLL TMAX CIRCUIT

NOTE : ○ : For CDM-7837R Model Only, ● : For CDM-7834R Model Only, Others : Common.

CD Mechanism Assembly Parts List

NOTE : *For the parts not mentioned, refer to the Service* Manual for DP-L SERIES (Part No. 68E26422S01).

Model	DP23L05A			DP23L23A		
Symbol No.	Index	Part No.	Description	Index	Part No.	Description
2	5-G	01B70635W01	Assy., Rivet Arm Disc		01B00578K01	Assy., Rivet Arm Disc
7	5-F	44A70617W01	Gear (C)		44A70617W02	Gear (C)
10	5-B	27C70602W01	Chassis, Top		27C00576K01	Chassis, Top
13	3-D	01A70636W01	Assy., Rivet Bracket Motor		01A00579K01	Assy., Rivet Bracket Motor
19	2-B	01A70580W01	Assy., Chassis Pick-Up		01A00588K01	Assy., Chassis Pick-Up
26	2-C	41A70587W01	Spring, Multi		41A70587W10	Spring, Multi
30	1-D	41A70586W01	Spring, Nut (A)		41A70586W10	Spring, Nut (A)
35	3-A	07A70588W01	Stopper, Clamp		07A00568K01	Stopper, Clamp
43	3-E	45A70629W01	Lever, Switch		45A70629W02	Lever, Switch
45	4-F	44A70616W01	Gear (B)		44A70616W02	Gear (B)
46	4-E	45B70619W01	Lever, Cam		45B70619W02	Lever, Cam
51	4-E	07A70633W01	Bracket, Motor-Wire		07A70633W10	Bracket, Motor-Wire
52	4-E	01A70637W01	Assy., Rivet Arm Timing		01A00593K01	Assy., Rivet Arm Timing
53	4-F	41A70606W01	Spring, Washer		41A70606W10	Spring, Washer
62	2-F	45B70623W01	Arm, Lock (R)		45B70623W10	Arm, Lock (R)

Miscellaneous

M1303		01V73300W38	Assy., Motor Sled (7V-370mA)		01V11100Y98	Assy., Motor Sled (7V-370mA)